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AGRICULTURAL MARKETING IN INDIA

Report on the

MARKETING OF TOBACCO

IN

INDIA

AND

BURMA

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INTRODUCTION

This report shows the important place which the tobacco crop holds in Indian agriculture and indicates how returns to tobacco growers can be increased by reducing the costs of distribution at various stages from the field to the consumer or manufacturer. At present the share of the consumers or manufacturers' price obtained by the grower is small, being only 10 annas in the rupce in the case of the internal trade and in respect of tobacco leaf exported to the United Kingdom the grower gets only, bout 6 annas in the rupce paid by the buyers for stripped leaf.

Few people know that India produces about one-fourth of the world's tobacco and that it is the leading eash crop of the cultivators in many parts of the country Still fewer are aware that India produces high quality against tobacco and that many well known brands of against are manufactured in India for which large quantities of locally grown tobacco are used. In view of the general lack of knowledge and the absence hitherto of published information on the subject this report is somewhat more comprehensive and voluminous than others of the marketing survey series so far issued. This seems to be justified by the range and complexity of the material

The report sets out in detail how better prices can be secured for growers by economies in distribution, by the production of high quality tobacco,—prices of which show an upward tendency,—by establishing regulated and open markets in the main producing areas, by the reduction and regulation of market charges—which are in many cases scandalously high—and by the adoption of uniform standard quality grades

It is clear from the report that there is ample scope for extending the internal and external trade in high

HUAR 2

quality leaf It is evident, however, that further expansion of the production and trade will depend on maintaining and improving the quality of Indian tobacco. The report shows how this can be done?

Thanks and acknowledgments are due to a large number of growers, traders, manufacturers and others for their kind assistance in making this report possible by freely giving their time and friendly co operation to the marketing staffs throughout the country

Note—The Government of India should not be regarded as assuming responsibility for all or any of the material contained in this report

TO THE GENERAL READER

FOR A QUICK GRASP OF THIS REPORTIREAD THE INTER-CHAPTERS AT PAGES 69, 108, 161, 189, 227, 253, 275, 299, 317, 350 and 375

Office of the Agricultural Marketing Adviser to the Government of India,

Delhi

November, 1938

INDIA'S POSITION IN THE WORLD TRADE.

A -INTRODUCTION.

Tobacco 1. possibly the most democratic luxury and as such is "a rich man's solace and a poor man's comfort" The population, rich and poor, of all nations consume tobacco and the tobacco industry is one of the few which suffered practically no set-back during the recent depression period

Botanically the tobacco plant belongs to the natural order Admices which includes also potatoes, brinjals tomatoes and chillies and to the genus \(\text{lcottana}\) (named after Jean Nicot 1530 1600, Agint for the King of France in Portugal wno introduced tobacco into France) The genus embraces over at least 35 distinct species which are mostly natives of America, although a few are indigenous to the Pacific Islands and Australasia They consist in the main of ornamental plants used in sub tropical gardening and only two of the species, \(\tau \); \(\text{Nicottana}\) \(\text{Tustica}\) and \(\text{Nicottana}\) \(\text{Tustica}\) double were introduced by the Portugese about the year 1605

Each of the two species contains several varieties. Howard and Howard in their "Studies in Indian Tobacces" mention six varieties of N rustica and four of N Tobacum, as enumerated by Comes (1899) and Anastasia (1907) respectively. The N. rustica species (see plate facing page 22) is cultivated in India for smoking (mainly in hookah) and snuff and in Syria, Arabia, Persia, Abyssinia, and parts of Europe largely for the manufacture of snuff. The species N Tabacum (see plate facing page 23) is, however, more important and is the one more widely grown throughout the world. International trade in tobacco and tobacco products consists almost wholly of the Accotiona Tabacum species, Nicotiana rustica being, as a rule, consumed locally

B-WORLD PRODUCTION

Over three fourths of the world's area under tobacco is con contrated in two continents, America and Asia The following figures, extracted from publications of the League of Nations, indicate the dis'ribution of the tobacco area by continents

World tobacco acreage
(Thousands)

	1925 26 to 1929 30 (Average)	1933 34	1934 35
Africa	277	202	277
America	2 397	2 346	2 086
Asia (excluding China)	2 296	2 148	2 215
Europe (excluding U S S R)	816	701	652
USSR	218	465	468
Oceania	2	18	10
Total (excluding China)	5 936	5 933	5 708

These figure, indicate that the world acreage under tobacco declined during the depression period the decline being almost wholly due to a reduced acreage in America and Europe (excluding Russia) The area in Africa and Asia has been practically constant during recent years but in Russia the acreage has more than doubled testi

Accurate data for area and production in China are not available but the estimates made by the League of Nations indicate the following position which is still highly conjectural

Area and production of tobacco in China

	Year	Area (in thousands of acres)	Production (in millions of lb)
1933		1 305	1 389
1934		1 292	1 327
1935		1 353	1 393
1936		1 345	1 404

Taking into consideration the area in Chans the world acreage under tobacco in 1934 35 therefore comes to 7 million acres Appendix I shows the distribution of the world's tobacco area among the principal countries

It is evident that half the area under tobacco in the world (excluding Chi i) is concentrated in two countries the United States of America with about 28 per cent of the total, and India and Burma with more than 23 per cent. The other important countries are the Dutch East Indies U S S R Brazil, Greece, Philippines Turkey and Cuba Among the Empire countries apart from India Canada Rhodesia and Nyasaland are the most important.

It may be observed that though the area under tobacco in the world (excluding China) declined considerably in 1934-35, the average area for the depression period, 1930-31 to 1934-35, was still higher by about two hundred thou-and acres as compared with the pre-depression quinquennal (1925-26 to 1929-30) average area Since 1935-36 the trend in world's tobacco area appears to be on the ri- and it may be generally stated that since the beginning of the pre-ent century, the world production trade and consumption of tobacco have risen rapidly. As the Imperial Economic Committee e-timated, "For the years 1909 to 1913 the average annual vorld production of leaf excluding China and India, was estimated at 2.394 million b. For the years 1920 to 1922 this average was pi-ced at 2673 million lb and in 1926 it is computed that 3,415 million lb of tobacco leaf were harvested." The corresponding estimate of world production in 1933-36 was 5,000 million lb excluding China and 6,393 million lb including China

Appendix II gives the production of tobacco in the principal countries of the world from which it will be observed that the aver are total quantity produced in India and Burma during the five years ending 1934-35 amounted to 1378 million lb which was somewhat higher than the amount produced in the United States of America and represented 2s per cent of the total world production excluding China

Normally the United States of America stand first among the tobacco producing countries of the world evcluding China with India 2. ... Coo. econd. But since 1932 33 the production of tobacco in India has exceeded that in the United States. In making this comp rison however it may be noted that unlike other countries the figure of production in India includes not only leaf and stems of the leaf but also sometimes the whole stalk or part of the stalk of the plant which is consumed along with leaf in certain reducences types of consumption. The international trade in an manufactured tobacco is almost wholly in leaf and as such the figures of production in India are likely to give a somewhat misleading impression about the volume of Indian production to those accustomed to think of immanufactured tobacco in terms of leaf² only

C-INTERNATIONAL TRADE

Though India now competes with the United States of America for the first place among the tobacco producing countries of the world her production is almost entirely used for home consumption the average annual exports from the country being only about 2 per cent of the total production Most of the production in China and Russia and about three-fourths of the production in Brazil is also consumed locally. China was in fact one of the largest importers of tobacco till 1932.

Of the total production in the world including China only about one fifth enters international trade. Appendix III shows

[&]quot;To the tobacco trade generally "Leaf means lamina and stem, "Strips ' imply lamina without stem or butt (i.e. the lower portion of the mid rib)

the exports of tobacco from the principal countries of the world From this, it will be seen that in spite of the huge production, exports from In ha and Burma come to less than 3 per cent of the world is exports. The United States of America hold a dominating position in the world is export trade in unmanufactured tobacco and on an average account for about 46 per cent of the world total. Dutch East Indies and Greece together provide a little over 22 per cent of the world stotal exports while Turker accounts for about 5 per cent. The Imperial Economic Committee estimates that allogether the exports from Empire countries in 1954 amounted to about 6 per cent of the world total

The direction of these exports is mainly towards Europe Dur no 1937 over 70 per cent of the exports from the U.S. A. almost all the exports from Netherlands E. Indies 6º per cent from Greece and 45 per cent from India were absorbed by countries in Europe the United Kingdom being the largest simple purchaser of the immanufactured tobacco entering the international trade of 9 per cent and 464 per cent of the immanufactured tobacco exported from the U.S. A. in 1933 and 1933 respectively was shipped to the United Kingdom. Appendix III gives the imports of un manufactured tobacco in the principal importing countries of the world.

The c'aird importing countries at will be observed, are the Linited Kinso in Germann v rance and China. Of these the Linited Kinso in Germann v rance and China. Of these the Linited L'initial was the c'air country where the trend of imports of imm and urred tobacco is on the rice even when compared with the majort during the pre-depression period. Till 1939. China was considered to be the third largest importing country but from that year her imports rapidly declined. In 1939 and 1936 she is reported to have imported only 18 million lib and 25 million lib of unmanufactured t bacco leaf respectively almost wholly from the Cinted States of America. In addition she is reported to have imported about 10 million lib of tobacco stalks and stems for use in the manufacture of change (incareties in each of the two versit 1932 36 and 1936-37 on account of the high price of American Virginia tobacco. The following figures compare the imports in the principal countries during the depre ion period with those of the pre-depression time.

Annual average imports
(Million Rs.)

Importing country	Pre-de- pression period (1925-29)	Depression period (1930/34)	1935	1936
United Kingdom Germany Chma France U.S.A Aethe lands	203 218 105 9° 8	211 183 109 104 83 71	252 192 18 5 85 61	9 1 192 25 66 90 62

These figures indicate a fall in the average imports in Germany and China as against a rise in United Kingdom, France, U S A. and Netherlands The rise in imports in the last two countries is small The increase in the average imports into France during the depression period was very largely due to the large quantity of tobacco unported in 1930. From that year onwards, there has been a decline in the imports and in 1936 France imported only 66 million lb Part of this decline was due to rise of production ot tobacco in France from 69 million lb in 1930 31 to 87 million lb in 1934-35 In the United Kingdom the imports have risen from 237 million lb in 1930 to 271 million lb in 1936 Apart from the general economic depression prevailing in Central Europe the fall of imports into Germany appears to be largely due to an mcrease in the German production of tobacco from 46 million lb in 1930-31 to 75 million lb in 1935 36 The sudden fall of imports into China has resulted primarily from a rapid increase in recent years in the domestic production of Virginia tobacco that is being used in place of imported leaf from the United States The produc tion of Virginia flue cured tobacco in China in 1937 was estimated at about 220 million lb as against about 180 million lb in 1935 and 1936 and only 3 to 4 million lb in 1925 The utilisation of earry over stocks that are not being replaced by fresh imports also con tributed to the decline in imports. The quality of the locally produced flue cured leaf is however reported to be inferior to American leaf in that it has less oil contents and lacks in texture and aroma It has however a bright colour and burns well Production has been encouraged by increased duties on American imported leaf and an increase in the tax on cigarettes which has forced the manufac turers to use the cheap Chinese leaf in preference to the expensive imported leaf

India is not a large importer of unmanufactured tobacco. During 1930 31 to 1934-35 her average annual imports including those of Burma by sea were only 33 million lb. consisting almost wholly of American tobacco imported from the United Kingdom and the U.S. A. In 1935-36 these imports of unmanufactured tobacco fell to 19 million lb but in 1936-37 they rose again to 33 million lb.

CHAPTER I—SUPPLY

A -Indian Supplies

(1) IMPORTANCE OF THE CROP

Less than 150 years ago tobacco was comparatively unknown in India's commerce. The first direct reference to tobacco in this country is associated with certain Portugese missionaries who introduced the plant and a knowledge of its properties

Tolacco was first successfully grown for commercial purposes melogiert in Bombay and appears to have been grown throughout the Deccan for about a century before being carried to the rest of India As in other parts of the world tobacco passed through a period of persecution and its ultimate complete distribution through out India is only another example of the ready way in which profit able new crops or appliances are absorbed into the agricultural and social economy in this country

That co is one of the important eash crops of Indian agriculture although it forms on an average only about 0.4 per cent of the total sown area in Buttish India. The following statement shows the figures of area and production as published and hypothetical value of the tobacco crop of iring the past ten years.

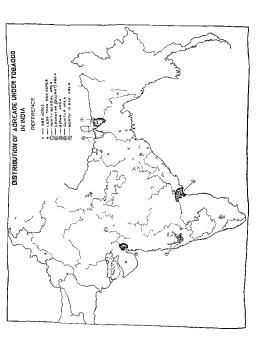
Area, production and value of tobacco crop in India and Burma

Period	Ar (Thousand	ca* dacres)	Production* (Thousard tons)		Value† (Crores of Rupees)	
	India	Burma	India	Burma	Ird a	Burma
1925 26 1926 27 1927 28 1928 29 1929 30	1 191 1 117 1 167 1 194 1 200	86 101 118 114 117	271 354 550 548 577	39 45 52 51 52	15 49 18 43 32 19 31 32 31 90	1 41 2 43 3 02 2 52 2 05
Average of 5 years	1 174	107	460	48	25 87	2 29
1930 31 1931 32 1932 33 1933 34 1934 35	1 146 1 19° 1 163 1 124 1 308	111 87 88 103 102	524 584 577 516 639	49 39 39 45 45	19 97 19 98 17 37 14 31 18 81	1 33 0 70 0 38 0 60 0 63
Average of 5 years	1 187	98	569	43	17 01	0 3

^{*} Sor res -Estimates of Area and Yield of Principal Crops in India

The estimates of value are rough approx mations based on hardet prices of raw tobacco. These figures are however highly conjectural in view of the fact that the published figures of area production and harvest prices are not complete and accurate as well be discussed later.

TREND OF ACREAGE UNDER TOBACCO IN IMPORTANT BRITISH INDIAN PROVINCES, INDIAN STATES & BURNA. IN TOTAL BRITISH INDIA ---- BENGAL 7/02/59/2 TOTAL INDIAN STATES -- X-X- BIHAR & ORISSA --O-O- BOMBAY BURMA 1150 MADRAS --- -*IICO* 1050icco-957-900-850-800 400 350-300 250 200 50 5ε



It will be seen that in India, while the area increased by little over 1 per cent in the second quinquennium the production increased by over 23 per cent, but the value of the crop declined by about 30 per cent. The sudden increase in production and value of the crop in 1927 28 was almost entirely due to addition of statistics for certain areas for which no figures were available prior to that vear

In Burma, the area declined by about 9 per cent and production by 10 per cent during the five years ending 1934 33, as compared with the previous quinquennum. The fall in the value of the crop however, was considerably greater being about 68 per cent

(2) AREA

(a) Total—The figures for the years after 1934 35 will be discussed later but may be pointed out here that the statistics of area and production for India given in the foregoing table are not complete and securite in that they do not include the acreage and yield in all the production findian States and that the production figures for certain uses are not correctly recorded as will be explained late. The tables given in Appendices Nos IV and V show more correctly the position of area and production in the different Indian provinces, and Indian States.

Figures for Burma are recorded separately

The total area under tobacco in India based on the average of the seasons 1929 30 to 1930 36 is 1 300 000 acres. The share of each of the important provinces and States is given in the following table.

Average area under tobacco (Average of 1929 30 to 1935 36)

(Average of 1020 00 to 1000 00)								
_	Thousand acres	Percentage of total area m British India	Percentage of all Ind a acreage					
British India-								
Bengal	293	27 8	21 7					
Bihar and Orissa	142	13 8	10 6					
Bombay	151	14 3	11 °					
Madras	964	20 0	19 5					
Punjab	71	6 7	5 2					
United Provinces	84	8.0	6 2					
Other Provinces	46	44	3 4					
Total British Provinces	1 0a1	100 0	77 8					

Average area under tobacco

(Average of 1929 30 to 1935 36)

_	Thousand acres	Percentage of total area in Indian States	Percentage of all Ind acreage
ndvan States—)		
Baroda	45	15 1	3 3
Cooch Behar	54	18 1	4 0
Deccan States and Kolhapur	51	17 0	3 8
Nizam s Dominions	78	26 1	5 8
Mysore	24	8.0	18
Other States	47	15 7	3 ә
Total Indian States	299	100 0	22 2
Total Ind a	1 350	1	100 0
Burma	10		

It will be observed from the foregoing table that about 78 per cent of the tobacco in India is found in British India and the rest in Indian States Four provinces uz Bengal Bihar Bombay and Madras account for a little over four fifths of the total area in British India and over three fifths of the all India area Bengal is the leading province and contains almost 22 per cent of the total tobacco acreage in India. This is followed by Madras with 195 per cent Bombay 112 per cent Bihar and Orissa 106 per cent and the Punjab and the United Provinces with 52 and 62 per cent of the Indian total respectively

Although Bengal contains over a fifth of the total area in India the ctop forms only about 1 per cent of the sown area in the province. The proportion is only 06 per cent in Madras 04 per cent in bombay and 05 per cent in Bihar and Orise.

The average area in Indian States is 299 000 acres a little over a fifth of the total in India The largest producers are Nizani's Dominions Decean States and Kolhajur Cooch Behar and Baroda which together account for over three fourths of the tobacco acreage in Indian States and about 17 per cent of the all India area

(b) Areas of concentration—It will be observed from the map facing page 7 that the tobacco acreage is not uniformly distributed but is concentrated in certain areas which form distinct tobacco growing centres of considerable commercial importance. There are five zones of concentrated production which together conan 797,000 acres or about 55 per cent of the total tobacco area in India in 1934 35

- (1) North Bengal area comprises the districts of Rangpur, Jalpaguri and Dinappur of Bengal along with Cooch Behar State This zone includes nearly four fifths of the tobacco area in Bengal and in 1934-35 the total acreage was 292 000, which represented about four fifths of the area in Bengal and Cooch Behar and one fifth of the total area in India.
- (2) The Charotar (Guyerat) area comprises three talukas, Anand, Borsad and Nadiad of Kaira district of Bombay and also two talukas, Petlad and Bhadran of Baroda State This area represents 50 per cent of the total tobacco acreage in the Presidency (including Baroda Kohlapur and other Decean States), and 10 per cent of the total area in India In 1934 35 the acreage amounted to 146 000
- (3) A pan area neludes Belgaum and Satara districts of Bombay along with kolhapur Sangh and Miraj States The area accounts for nearly 44 per cent of the tobacco acreage of the Presidency (including Baroda, Kolhapur and other Decean States) and 8 8 per cent of the total area in India In 1934 35 the acreage was 128 000
- (4 hintur area in 1934-85 amounted to 120 000 acres or 82 per cent of the total area in India This important cigarette leaf producing irea consists of a strip about 25 miles wide along the coast in the Guntur district of Vladras originally confined to south of Kistian river but now extending northwards of this point. The area under Virginia tobacco in Guntur district has been rapidly increasing and is expected to establish a fresh record during the current vear (1938-39). Over half the present total production of tobacco in Madras Presidency is concentrated in Guntur district
- (a) \(\colon\) crtll Bilder (Turhut) gree comprises the districts of Purnea, Muzaffarpur and Darbhanga m Bihar This includes over 85 per cent of the tobacco area in the province and more than 73 per cent of the total area m India In 1934 35 the acreage amounted to 111 000
- Other districts —Among other districts in Bengal, Mymensingh and Dacca are important and together grow about $2o\,000$ acres
- In Madras, Vizagapatam district is next in importance to Gustium and has an average area of 52000 acres. Combatore with \$1,000 acres. East and West Godavar. 21,000 acres and Madura district with \$700 acres ence next. The districts of Kurnool and Kistia grow about 7000 acres each. With the exception of the Nilgars Malabar and Chingleput which grow practically no tobacco, other districts in Vadras have from 1000 to 4000 acres each the more important being Salem, Trichinopoly, Ramnad, Ganjam and North Arrot.

In Bikar, Monghyr district and in Orissa, Cuttael district are important each of them growing about 6 000 acres. The Korapui district of the newly formed Orissa province has 23 000 acres. but since that year, the area has declined due chiefly to the loss of the export trade from Burma

Complete figures prior to 1928 29, are not available for Indian States Bareda shows an upward trend The highest recorded area was 59,000 acres in 1934 35 The average during the predepression period (5 years ending 1928 29) was 30 000 acres which rose to 45 000 acres during the seven years ending 1935-36 Nizam's Dominions and Mysore the trend of area under tobacco is definitely downwards During recent years the area in Nizam's Dominions reached its maximum of 201,000 acres in 1921 22 and 1922 23 since when there has been almost a continuous decline. In Mysore the average area during the 5 years ending 1928 29 was 27,000 acres which declined to 24 000 acres during the period of seven years 1929 30 to 1935 36 During the next few years, however, the area is expected to rise owing to the organisation of the Mysore Tobacco Company, Ltd In Cooch Behar State the trend of area is on the rise during the past seven years while during the same period the area in Deccan States and Kolhabur has ranged from 50 000 to 52,000 acres

With regard to individual provinces in British India the following figures indicate the trend of area under tobacco in the four important provinces:

Trend of area under tobacco in important provinces

	Beng	gall† †Bibar and Onssa.		Eombay		Madraa,		
Period.	Area (thousand acres)	Per cent. 713a (+) or fall () over the preceding average	Arca (thousand acres)	Per cent. 110 (+) or fall (-)	Area (thousand acres)	Per cont. rice (+) or fall () over the preceding average	Area (thousand actes)	icr cent rise (+) or fall () over the preceding average
Pre-war average (5 years ending 1913 1914)	318		113		*93		205	
Post-war average (5 years ending 19°3 1924)	797	_6 6	117	+3 5	* 110	+19 6	213	+3 9
Pre-depression aver age (5 years end ang 1928 29)	290	-2 4	130	+15 4	*126	+14 5	254	+19 2
Average for 7 years ending 1935-36	293	+10	142	+5 2	151	+19 8	*61	+3 9

Including Sind

fAs in the case of other crops, the areas under tobacco in Bengal and Bihar are much less accurately known than in other parts of British India Bengat thus shows a downward trend During the past 25 years the highest recorded area was 342 000 acres in 1912 20 In 1933 34 owing mainly to the loss of export trade with foreign countries the acreage was only 256 000 acres which rose to 305 000 acres and 307 000 acres in 1934 35 and 1935 36 respectively due mainly to the nute restricting campaign.

In Bihar and Orissa the trend is on the rise. In 1933 34 and 1934 35 however there was a sudden fall probably due to the in creasing acreage of sugarcane as would appear from the following figures relating to the three tobacco producing districts of Bihar—Muzafarpur Darbhauga and Purnea—which together contribute over 80 per cent of the tobacco acreage in the province

Area under tobacco and sugarcane in Uuzzaffarpur Darbhanga and Purnea

- 6	A١	a.	es	э.

	Year	Tobacco	Sugarcane	
1932 3		135 000	52 200	
1933 34		114 300	129 900	
1934 30		111 100	13 700	

There was subsequently a rise in the tobacco area in 1935 36 It may however be stated that much of the rise in the reported sugarcane area in 1933 34 was due to a correction of accumulated errors as a result of a special survey of the sugarcane area in North Bihar

The area under tobacco in the Bombay Presidency has increased faster than in other Provinces. The average area during the seven years ending 1935-36 was over 64 per cent higher than the pre-war v- age acreage. There has been a steady increase during the last 55 years or more. During the first quinquennum of this century the annual average area in this province was only 70,000 acres so that the area under tobacco has more than doubled itself during the past 36 years. Almost the whole of this increase took place in the two tobacco zones of the province the Charotar (Gujerat) area and the Nipani area.

In the Madras Presidency the area has risen by about 30 per cent over the pre war aterage. The extent of the crop in the Guntur district which is the most important and largest tobacco producing district greatly influences the total Madras crop. Tobacco being a relatively rofitable crop there is a pronounced tendency among the farmers in Guntur district to grow as much tobacco as possible in many cases even without rofation. The area in this district has risen from 70 000 acres in 1925 26 to 134,000 acres in 1935 36. a rise of over 91 per cent During 1934-35 the area under tobacco in the province rose by 44 000 acres over the previous year and of this increase, Guntur district alone claimed 25,000 acres In 1935 36 the tobacco acreage in the province declined to 280,000 acres from 292,000 acres in the previous year, but the area in Guntur rose to 134,000 acres in 1935 36 from 120,000 acres in 1934-35

in the Punjab, the movement of tobacco area from year to year is erratic, but there is a slow upward trend The pre war average acteage was 59 000 acres which rose to 71,000 acres during the seven years ending 1930 36, a rise of 20 per cent. The highest area recorded during the past 30 years was 90,000 acres in 1921 22

The United Provinces showed a decline during the 10 years end me 1928 29, as compared with the pre war average acreage under tobacco There has been however a slight improvement during the seven years ending 1935 36 though the movement is irregular pre war average area was 87 000 acres while the average for the seven years ending 1935 36 was only 84 000 acres a fall of a little over 34 per cent

(3) PRODUCTION

(a) Vethod of estimation -Figures of area under tobacco in different provinces in India Burma and a few of the Indian States are available for the past several years, but estimates of outturn of tobacco were only published in the year 1926 27 as a result of recom mendation of a meeting of the Board of Agriculture held in Decem ber 1926 at Pusa In estimating the production of any crop three factors are considered important, tiz, area, standard or normal yield per acre and percentage relation of the annual crop yield to the standard or normal yield per acre and the figure of total production of any crop is arrived at by using the following equation -

Production = Area × \frac{\text{tormal yield \times per cent of normal}}{}

The figures of area are collected by petty revenue officials (call ed by different names in different provinces like Talati, Patuari, Tapedar, etc) in the temporarily settled areas and reasonable estimates of acreage under tobacco are available for all the provinces except Bengel Bibar and a small part of Madras and Indian States where this system is in vogue. In Bengal Bihar and a small part of Northern Madras, the land is permanently settled and estimates of area are obtained by district officers through the agency of police or circle officers and as a result the figures of area in the perma nently settled tracts are worse than those in the temporarily settled

The standard normal yield is defined as "the average yield on average soil in a year of average character " To test the accuracy of this standard yield the system of crop cutting experiments is in force in some provinces while in a few others no crop cutting experi ments appear to have been ever conducted for tobacco

In Bengal standard yield is taken to mean the average of crop putting experiments made during a quinquennium by officers of Agricultural Department. The average yield thus arrived at becomes applicable during the next five years as the basis for estimating the annual production. The estimates of percentage relation of the annual tobacco crop to the average or normal are made by district authorities.

In bombay the formulæ for normal yield of several crops were arrived at by a committee of survey experts in 1884 Talukawar crop formulæ' and are used even mule are I nown as now for calculating the annual yield of several crops including tobacc by taling into consideration the total area under any par ticular crop and the annauars valuation of that crop exactly ino on how the original formulæ were worked out, but the accuracy of estimates of production of tobacco based and published on a fermula devised over 30 years ago can be easily imagined some time past the authorities in the province have realised that the figures of production of tobacco based on the 1884 formula are far too ligh It is more than likely that the 1884 figures represent the yield of undried green leaf and not the dried produce usually marketed In 1927 28 a number of crop tests on tobacco were taken by the provincial department of agriculture to arrive at a more cor rect estimate of standard normal yield but the results obtained were thought to be rather low and since then no further attempts appear to have been made to revise the 1884 figures. During the course of enquiries on marketing it was observed that figures of actual production of tobacco in Bombay were far lower than those published on the basis of the 1884 formula and further enquiries elicited that the published figures are over three times the actual production as can be seen from the following figures

Estimates (f production of farm cured tobacco in the Bombay Presidency, excluding Sind

(Tons) Published Estimates made Vent estimates based on during Marketing 1884 formula Eaguiry 1930 31 104 017 34 815 1931 32 141 360 46 800 1939 33 115 169 39 030 1933 34 106 073 33 461 1934 35 144 997 48 345 150 557 1935 36 49 631

The standard normal yield of tobacco in Madras is 1 190 lb per acre fixed in 1919 and never revised since then Conditions of

production change from year to year and it is therefore obvious that any figure of the estimate of production based on a standard fixed about 19 years ago has to be treated with caution. For example, the standard yield fixed for Guntur district is 1 000 lb ner acre When this stan lard was fixed there was not a single acre under virginia tobacco in Guntur district. Of the present area of over 120 000 acres under tobacco in Guntur district two-thirds is under virginia which yields on an average about 750 lb of raw leaf or about 400 to 500 lb of processed leaf per acre, the remaining being under country tobacco yielding about 1 200 lb of raw tobacco Before this tobacco is offered for sale to manufacturers of cigarettes and chercuts losses in weight occur on account of driage stripping and starming Such losses are estimated at 30 per cent in the case of virtinia and 40 per cent for country tobacco. Similar is the case with regard to other districts. 35 per cent for Ganiam Vizagapatam and Godawari districts and 10 per cent for the remain mg districts except Vadura Ramnad and Timnevelly have to be deducted from the published yield figures to arrive at the weight of cured leaf actually produced Making allowances for these losses m weight it is found that the total production of cured tobacco in the Madras Presidency is much lower than the published figure, e a .-

Fiximates of production of farm cured tobacco in Madras

(Thousand tons) Estimated actual \ ear Published figures productuon of cured leaf 1930 31 122 101 1931 32 149 119 193° 33 138 115 1933-34 129 107 1934 35 153 178 1935 36 13 116

LHCAR

In Bilder the proposal of fixing the standard normal yield tor tobacco cure up in 1892 and was finally fixed in 1906 at half a ton per acre for the whole of Bilder and Orissa on the basis of the average yield then prevailing in only two districts Darbhanga and Muzaffar pur. The important district of Purnea appears to have been left out and there has been no revision of the standard normal yield figure during the past 32 years. The annual production is calculate ed taking into account the area the standard normal yield and percentage to normal yield of the crop each year.

 N_0 standard yield figures have yet been prepared for the N-W. F. P. and the production figures which have not been worked out hitherto are estimated as below, taking into account the area under tobacco and the average yield per acre

Estimate of production of farm cured tobacco in the h W F P.

					1011
1930-31		 ••			12 000
1931 32	••	 ••	••		14,000
1932-33		 		••	8 000
1933-34		••	••	••	6 000
1934-35		 ••			15 000
1935-36					18,000

Pugue, of standard normal yield for Sund do not appear to be available possibly they were never worked out. The Provincial Department of Agriculture reports that the average yield may be taken at 1646 lb per aere for the whole province. Estimates of production in Sind have been separately published since 1933 34 but these published figures are below those collected during the course of the marketing survey as can be seen from the follow that the survey of the marketing survey as can be seen from the follow.

Fstimates of production of farm cured tobacco in Sind
(Tons)

Yean			Published figures	Estimates made during the course of Marketing Enquiry	
1930-31				5 000	
1931 32			1	6 000	
1932-33	-		'	5 000	
1933-34			1 000	3,000	
1934-35			1000	4,000	
1935-36			3 000	6,000	

Among the Indian States Hyderabad appears to be the only State where figures of standard normal yield were fixed in 1931. The annual crop is estimated in terms of annas from which the annual production is calculated No standard yield figure for Mysore has yet been prepared and the published estimates of production are based on the information collected annually by the local revenue authorities. During the course of marketing survey, how ever it was found that these estimates are far too low and that the

actual production is more than double that indicated by the pub lished estimates

Estimates of production of farm cured tobacco in Uysore State (Tons)

Year	Published figures	Estimates made during the course of Marketing Enquiry
1930 31	4 000	2000
1931 32		8 000
1932 33	3 000	8 000
1933-34	3 000	8 000
1934 35	4 000	8 000
1935 36	3 000	7 000
1936 27	3 000	7 000
1937 38	3 000	7 000
	1 !	8 000

No standard yields exist for any erop in Baroda The pub-lished estimates are based on the forecast figures supplied by the local Reve in Officers who afterwards submit final estimates. No corrections appear to be made in the published figures after the recent of the final estimates and these iw sets of figures vary con derably as can be seen from the following -

Fsti nates of production of farm cured tobacco in Baroda State

	(Tons)	Baroda State
Year	Published figures based on prelimi nary forecast	Figures based on final estimates
1930 31		
1931 32	8 000	7 000
1939 33	7 000	8 000
1933 34	8 000	8 000
1934-35	5 000	5 000
1935 36	4 000	11 000
	18 000	13 000

No estimates of production f tobacco have hitherto been made for any other Inlian Stat except for Khairpur in Sind for which figures of estimated production are being published since 1934 3. Cooch Behar in north Bengal and Kolhapur Sangh and Miraj in the south of Bombay Presidency have fairly large tobacco production which has been estimated. Excepting Cochin and Tra vancore which grow no tobacco several other States have some area under tobacco and similar estimates have been made for Kashmir, Patiala and other Punjab States Gwalior, Central India and Raj putana States Gujerat and Western India States, Madras, U.P. and Eastern States etc. It is estimated that the figures of area and production of tobacco cover about 94 per cent, of the area under Indian States and the survey embodies about 97 per vent of the total area of India and Indian States.

In Burma figures of standard normal yield do not appear to nave yet been prepared. An average yield figure of 990 lb of tobaccoper acre was fixed by the Commissioner of Settlements and Land Records in 1922 and the annual production is being estimated on the basis of area under tobacco and the average yield of 990 lb per acre from that year. There is no annual valuation of the crop on percentage or annua basis.

Another important factor in judging the production of tobacco in India is that while international trade in unmanufactured tobacco consists of leaf alone the internal trade in India very largely con sists of leaf and also stalks and stems that are gathered during the course of picking and sold as tobacco. In parts of the Punjab North West Frontier Province Delhi and the U P the whole plants are harvested cured and sold as tobacco. In other cases a large portion of stem and stalk is picked along with the leaf and sold as tobacco When the question of the publication of estimates of production was first taken up the provincial authorities were asled to send returns in terms of weight of dry leaf as ordinarily marked by the cultivators but the weight of stall's and stems were also to be included in the outturn returns in provinces where the stalks and stems have a commercial value Some provinces however, where stalks and stems have got a marlet value supply returns of weight of dry leaf alone others include both leaf and stalks and stems Provinces like Madras supply figures of theoretical weight of dried leaf and not cured leaf as sold by growers. It is there for "sential to collect figures on a uniform basis and separately for farm cured (a) leaf and (b) stall's and stems if and when these are sold as tobacco along with leaf

(b) Aterage yield per aere (leaf end stalks and stems)—The vivid per aere obvouvit varies from province to province and from district to listrict and often from one village to another depending on the variety and type grown soil cultivation (urrgated or an irrigated) season and the extent of damage by frost, pests and diseases. The average annual vield of raw tobacco in India as published in the 'Quinquennial reports on the average vield per acre of principal crops in India '' was 1179 lb per aere during the quin quennium ending 1931 2 as against 1555 lb per aere prevailing during the 5 years ending 1926 27 Smilar figures are published for Ben_al Vladras Punjab Assam and Delhi These figures might

be taken as some index of the fluctuation in yields if provinces are not trying gradually to correct errors in the original basis but are not quite accurate having been based on faulty standards and varying basis as (xplained earlier

As a result of marketing surveys conducted in the several provinces and States it is estimated that the average yield of tobacco during the six years 1930 31 to 1935 36 was 1 030 lb per acre in British India and 707 lb per acre in Indian States or an average of 950 lb per acre in the whole of India meluding Indian States This average yield per acre does not however represent the yield of leaf allow as in certain areas the leaf is harvested along with stalks in distems. The following statement gives the average yield per acre in different Indian provinces and States and Burma and the approximate proportion of stalks and stems included in the total

Average wild of riv tobacco per acre (Average of 6 years ending 1935 36)

Province or State	Yield per acre	Percentage of stalks
Brstsek Indsa-		
Assum	1 120	20
Bengal	986	25
Bihar and Orissa	933	2,
Bombay	627	
Central Provinces and Berar	640	20
Delhı	2 240	331
Madras	964	15
North West Frontier Province	2 400	331
Punjab	920	50
Sind	1 646	334
United Provinces	2 240	331
British India average	1 030	174

Average yield of raw tabacco per acre (Average of 6 years ending 1935-36)—contd

Province or State	Yield per acre	Percentage of stalks
ndsan States—		
Baroda	419	
Cooch Behar	110	20
Hyderabad	46a	33 }
Myzore	46	
Other Indian States	77	21
Indian States average	-0-	201
Average for India (including Indian States)	969	18
Barma	990	

The average annual yield per aere in India is 959 lb of which ls per cent or 173 lb consist of the stalk of the plant. The yield of leaf alone thus comes to 766 lb per aere.

Apart from the soil, season and cultivation factors, the yield ner acre varies in accordance with the type grown and irrigation given Thus in tountur district while the per acre yield of raw virginia cigarette leaf is about 750 lb * that of country cigarette tobacco is about 1 200 lb In the U P the hookah and chewing types yield about 2 300 lb per acre while the virginia cigarette and bidi types grown to a small extent yield only 600-800 lb and 500-700 lb per acre respectively. In Mysore the yield per acre of bid; type is 640 lb oer acre of chewing type 850 lb while the yield of virginia cigarette leaf is only about 300 lb per acre. In the Charotar area of Bombav the irrigated crop yields about 1 500 lb of bidi tobacco per acre as against 750 lb obtained from an acre of unirrigated In the \ W F P a field irrigated from a well gives about 2 000 lb of tobacco leaf and stalks and stems per acre while if the field is arrigated by canal water the yield obtained is only 1640 lb per acre

(c) Total production—The annual average production of raw tobacco during the six years ending 1935 36 was 483 000 tons (1 082

[&]quot;It is reported that during the past 5 or 6 years the average yield of Virginia flue-cured leaf in Gontur has shown a progressive decline and at present it is very unlikely that the average for the Guntur district as a whole exceeds 500 lb of useable leaf per acre

million lb) in British India and 93 000 tons (208 million lb) in British India and the rest in Indian States (see Appendix V)—Bengal accounts for 223 per cent of the production Madras 197 per cent the U P 142 per cent Bihar and Orisas 104 per cent Bombay 72 per cent and the Punjab 52 per cent It may be noted that though Bombau has a larger acreage under tobacco than either the U P or B and O her production is smaller than neither of the two latter provinces because of the lower yield per acre Other provinces constitute 47 per cent of the total production

The Indian States of Hyderabad Cooch Bihar Baroda Mysore and the Deccan States and Kolhapur together produce 72 000 tons on an average or 125 per cent of the average production in India and over three fourths of the production in Indian States

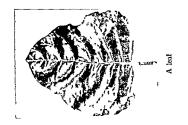
The iverage annual production in Burma is 44 000 tons or about 99 million lb

(d) Production in concentrated areas—The production of raw tobacc in the 5 zones of concentrated cultivation in 1934 35 is given below

_	Name of zone	Production of faw tobacco	Percentage to total product on in Ind a
	i	(Mill on lb)	
1	North Bengal (Rangpur Jalps guri Dmajpur d stricts and Cooch B har State)	327 0	27 5
2	Charotar (Gujerat) area of Bombay (Kaira d strict and Buroda State)	84 1	5 9
3	Nipani area (Belgaum and Satara districts and Kolhapur Sangli and Miraj States)	84 8	9
4	Guntur d str ct (Madras)	141 8	9 9
5	North Bihar (Turhu Pur es Muzaffar pur and Darbhanga districts)	J9 Q	6.9
	Total	736 7	51 5

A little more than half the production of raw tobacco in India is thus concentrated in these five zones. It may be noted that while the North Bengal zone accounted for 20 per eent of the total tobacco area in India it produced 22 9 per eent of the total production in the country. The Charotar area on the other hand occupied 10 per cent of the total area but it produced only 59 per eent of the total area but it produced only 59 per eent of the total area but it produced only 59 per eent of the total area but it produced only 59 per eent of the total area but it produced only 59 per eent of the total area but it produced only 59 per eent of the total area but it produced only 59 per eent of the total area but it produced only 59 per eent of the total

Nicotiana Rustica









Indian tohacco Similar is the case with the other three zones. These differences between the proportions of area and production are due to differences in the estimated yield per acre in the different zones. Of all these p zones, Guntur district is assuming increasing importance in view of the rapid expansion of eigarette tobacco-cultivation.

(4) QUALITIES AND TYPES

- (a) Rotanical tupes -- It is comparatively simple to distinguish the two main cultivated species viz Aicotiana rustica and Aicotiana Apart from the fact that the former has a vellow flower it is generally a more robust and densely growing plant than N Tabacum (see plates facing pages 22 and 23) which has a white or pink flower and an elongated comparatively smooth and generally pointed leaf as distinct from the thicker somewhat coarse textured leaf of A rustica which is often as broad as it is long and inclined to be rounded at the anex. In the cured state the two species main tain their distinctive characteristics. The cured leaf of A rustica is generally dark (or greenish) brown while that of A Tabacum may range to bright lemon in the case of flue-cured Virginia noticeable difference also in the strength of the tobaccos. In the case of A rustica the nicotine content ranges from three and three quarters to over eight per cent while the nicotine content of A Tabacum leaf seldom exceeds five and a quarter per cent and may be as low as half of one per cent
- Although the Howards have recorded* cases of natural crossferthisation at Pusa resulting in plants with characteristics intermediate between the two species the fact remains that from a botanical point of view it is an easy matter to distinguish the two species. Beyond that point, however it becomes practically impossible to make any clear cut classification by varieties. The types in each species form a complete series in respect of height of plant length of internodes size, shape and texture of leaf, etc., so that it is impossible to draw clear lines of distinction. There are however very wide differences in the types in each species ranging in the case of A rustica from the dwarf Ansiari type as grown in the North West Frontier Province to the medium Calc diga of the United Provinces and the Punjab and the tall Molthan; of Bengal

Similarly in the case of \ Tabacum there is a big difference between the tall somewhat slender \(\text{Virginia} \) types of \(Guntur \) and \(\say, \) the medium bushy like \(Gandu \) of \(\text{Gundu} \) is

The multifarious types are known by local names which may sometimes be that of a village in the di trict where they are grown or a descriptive name such as Kongumadari (long leaf) Volubandu (thick leaf) Anchiti (Elephant's ear) Vazhahkappal (like a banana leaf) and so on In regard to the nomenclature of the species itself

of the area under λ rustica is concentrated in the United Provinces, Bihar and Bengal while the remainder is distributed over the λ W F P Punjab Assam and the Indian States in the Punjab Rapputana Central India and the United Provinces In provinces such as Punjab, United Provinces Bihar and Bengal where both the species are grown extensively there are in general no separate areas for each of the two species and the λ Tabacum is grown in the same districts as λ rustica

- (c) Commercial types and descriptions—Quality characteristics.—Tobacco is used in many different ways and certain definite quality characteristics are required in the r w and cured tobaccos which constitute the various forms in which it is consumed. Apart from tobacco used for chewing and snuff or in the manufacture of insecticides (an industry which is apparently not carried on in India) the main factors are those associated with smoking quality eg strength burning character ash and aroma or flavour. In the first instance however the tobacco is judged on the physical characteristics of the cured leaf eg colour texture size of leaf and freedom from blemish
 - (i) Colour is an important characteristic and is generally talen as an index of strength. It is supposed that the darker the colour the stronger the tobacco and ince issa Cigarette leaf langes from bright lemon to reddish brown. The dark shades are also used in pipe and shag tobacco.
 - For cigars and cheroots the leaf should be light to dark brown In the case of bids orange to light greenish brown leaf is preferred although sometimes a propor tion of dark brown leaf may be used to give strength to the mixture No special stress is laid on colour for hookah and swift tobaccos and for chewing light leaf is preferred in Bombay dark brown in Madras and the Jaffi chewing tobacco imported from Ceylon into Travancore is very dark
 - (tt) Texture—This is also to some extent associated with strength It is considered that thick leaf contains more meeting and is stronger than thin leaf
 - For eigarettes the lenf should be thin fine and silky like a thick handkerchief. If it is very thin and papery it won it stand cutting. The leaf should therefore have one body. Similar leaf but of medium thickness and pilable is suitable for pipe tobaccos and for use in the cheaper form of eigarette.
 - The wrapper leaf for cigars should be thin pliable with smooth glossy appearance and the veins should not be prominent. For a straight cheroot the same type of wrapper leaf is required but for the twisted cheroot a leaf of medium thickness is preferable.

- For fillers in both eigars and cheroots the leaf may be medium to thick. For making bids, leaf which is fairly thick but not coarse is desirable in order that it may not break down to dust when being made into bids powder which consists of pieces about one eighth inch in diameter.
- When tobacco is used for chewing in the leaf form a medium texture is preferred but a thick leaf should be used when the tobacco is to be made up in a prepared form for chewing. The leaf used for hoolah tobacco is generally thuck and coarse
- (iii) Size of leaf—For the manufacture of etgarettes the leaf normally ranges from 12—18 inches long and 6—9 inches wide although smaller leaves of 6 by 3 inches may be used Similar leaf is used in preparing pipe and shar tobaccos.
 - The wrapper leaf of cigars and cheroots should be 9—12 inches broad and 2 feet or more long but for tillers the size of leaf is unimportant
 - For certain types of chewing tobacco large sized leaves are preferred but for the preparation of snuff hookah and bidi toba cos size is a relatively unimportant factor
 - (n) Blenn h—The presence of diseased patches or damage on the leaf is particularly objectionable in the cale of circ etter eight and cheroof tobaccos but relatively unimportant in other cases.
 - (v) Strengtt is perhaps the most important factor in smoking quality. Cigarctic tobacco should be mild or neutral with a meotime content of not more than 2 per cent "and a quarter and ranging as low as helf of one per cent." Pape and shag tobaccos are generally a little stronger.
 - Cigais may be mild or strong and the leaf used consums generally from 24-3; per cent of meotine although in the case of the mild Trichinopoly cigars of Madras the mictime content may range as low as half per cent The common twisted cheroot of Madras is Lowever much stronger and is made from leaf having a nicotine content ranging up to 5; per cent
 - The Burma cheroot may be either mild or strong and the nucotine content of the leaf used ranges from 14 to 4 per cent in local types up to 42 per cent in some of the just leaf imported from Bengal
 - Bids as a rule are if anything stronger than cheroots with the nectine content of the leaf ranging from 2½ to 5½ per cent and in average round about 4 per cent. The nectine content of chewing tobacco is much the

[&]quot;The figures used throughout this section are based on the analysis of our little samples of tobacco leaf of different types drawn from various parts of ludia and Burma

same as that used for $bidi^*$ but the leaf used for hookahs usually has a meetine content ranging from 3 to 7 per cent

- (11) Burning character—This must be slow, regular and continuous Evenness of burning is particularly important in the case of cigar leaf
- (vn) Ash—It is important that the 2-h should be of a whitish colour in the case of good eigarette, eigar, cheroot and bid tobaccos but in the case of hookah tobacco colour of ash is unimportant
- (tm) Aroma or flatour—This is difficult to define—It should, however, be pleasing and characteristic of the type of tobacco—In every case the leaf used should be free from excessive pungency or objectionable—e.g., earthy—flavours or unusual aromas—For example, a "Turkish" aroma however good would be regarded as objectionable in leaf intended for the manufacture of "Virginia" cigarettes

From what has already been said regarding the characteristics of Nicotiana Tabacum and Nicotiana rustica it will be clear that the quality required for eigarette, pipe shag eigar cheroot and bids tobaccos cannot be found in the Nicotiana rustica species. This species, therefore, is only suitable for use in the preparation of hookah, chewing and snuff tobaccos although a small amount of a N rustica variety with a high nicotine content is sometimes used in bids mixtures to bring the strength up to average

(d) Estimates of area and production by different commercial types and methods of curing—International trade in tobacco now consists of leaf of definite types of \$\tilde{I}\$ Tabacum species, but in India figures of area and production by different species (\$\tilde{I}\$ Tabacum and \$\tilde{I}\$ runsial and types (eigarette, eigar, bid, hookah, cheming, leaf, etc., are not available, officially or otherwise. It is, therefore a primary essential to classify the tobacco area and production by species and types to help the development of internal as well as external trade. This would also make it possible to institute a market news service which is conspicuous by its absence in India's tobacco trade.

As a first step, statisties of estimated production should be collected in respect of the two species N rustica and N Tabacum and the latter may be sub divided into different types like eigarette, eigar and cheroot, bidi, chewing hoolah and snuff. The cigarette leaf may be further classified into (a) Virginia and (b) Dess (Vatu) each of which should be sub-divided into (i) flue cured and (ii) sun eured.

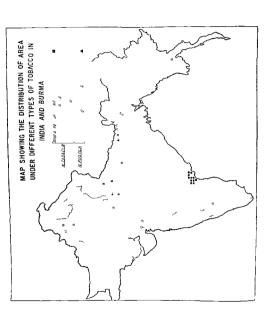
As a result of extensive enquiries made during the course of marketing surveys, the following estimates based on 1934-35 area and production are given for the two species and different types grown in India (see Appendices VI and VII)

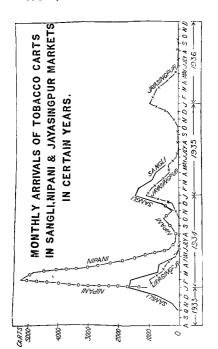
^{*}Indigenous form of cigarette wrapped in the leaf of a tree (see pages 327 28)

Estimated area and production of different types of tobacco in India (including Indian States)

	An	Area		Production	
Species and type	1housand acres	Percent age	Thousand Ib	Percent age	
\scattana Tabacum					
1 Cigarette virginin	41	2.8	27 173	1 :	
2 Cigarette country	-0	4.8	72 668	5	
3 Cigar	9	0 4	5 044	0 :	
4 Cheroot	129	8.8		8 1	
5 Bidi	931	'o 8	134 245	9 4	
6 Chewu & 9	164	11,		10 1	
" Hookah Chilari etc	450	31 1	436 136	30 5	
8 Snuff	21	1 4	13 906	1 0	
Fotal	1 116	76 3	957 213	67 0	
Accolvana rustico					
1 Hookah	306	20 9	410 523	28 7	
? Chewing	99	2 0	38 906	2 7	
3 Snuff	11	0 8	22 586	16	
Total	346	23 7	472 015	33 0	
Grand Total	1 462	100 0	1 429 228	100 0	

A little over three fourths of the area and two-thirds of the production in India are thus of N Tabacum species. It will be observed that the production of virginia eigarette tobacco for which there is international demand is just about 2 per cent of the total





There is a larger production of country eigarette tobacco for which the demand is mostly local, only about 10 to 15 per cent of the crop being exported, largely to Japan The other types are intended very largely for internal consumption

In Burma, all tobacco produced is of N Tabacum species, the principal types being cheroot, bidi and chewing The following figures give the estimated area and production of these three types based on 1931-35 area —

Estimated area and production of different types of tobacco in Burma,

	41	Area		Production	
Tvpe	Thousand acres.	Percent are	Thousand lb	Percent age	
\ abacs					
1 Cheroot	94	87.4	83 160	\$2.4	
2 Bidi	13	127	12 8.0	12.2	
3 Chewing	5	4 9	190	4 9	
Total	102	100 0	100 4 0	100 0	

In view of the fact that production figures in Burma are based on a flat average yield of 990 lb per acre fixed as early as 1922, the estimates of production for the three different types are highly con jectural

Wethods of curing determine to a large extent the quality of tobacco leaf, particularly with resard to colour and texture and hence statistics of international trade in unmanufactured tobacco specify not only the types but also give information with regard to the method of swining adopted for preparing the tobacco leaf for the market. Information on this point also is completely lacking for any part of India or Burma officially and otherwise. The importance of such information can be easily imagined when it is stated that in the United Kingdom which is India's principal market for unmanu factured tobacco as will be shown later, about 95 per cent of the imports from the U S A are of trugina flue-curred type

I stumates as well as geographical distribution (see map facing people 28) based on 1934 35 figures regarding the area and production of different types of tobacco cured by different methods are given in Appendices VIII and IX and the following summary indicates the approximate production of the different types cured by different methods

Estimated production in India of different types of tobacco cured by different methods (1934-35)

(dl bacsuodT)

			745-54 10 /			
	Spec es and type	Flue cured	Rack cured	Ground cured	Pit cured	Total
	Vicot ana Tabacu n					
1	Cigarette virein s	°5 830	1 343			27 173
	Ciga ette eo ntrv	3 438	65 335	3 895		72 668
3	Cgne		5 044			5 044
4	Chernot		1°3 498	488	i	193 986
б	Bids		9 467	124 7 8	ĺ	134 245
6	Chewnno	i	40 802	84 399	18 854	144 055
7	Hookah Chilam etc		66 0.0	314 512	55 574	436 136
8	Spuff		4 290	9 616		13 906
	Total	29 268	315 829	J37 688	74 428	957 213
	Neotiana rustica					
3	Hookak		39 20	370 803		410 523
2	Chewing			38 90°	1	38 906
3	<nuff td="" €<=""><td></td><td></td><td>92 586</td><td></td><td>*2 586</td></nuff>			92 586		*2 586
	Total		39 20	437 99		472 015
	Grand Total	29 268	355 549	969 983	74 428	1 429 228
	Percentage	20	24 9	67 9	s 2	100 0

Thus only 2 per cent of the total production is of flue cured type for which there is an increasing demand in the world market. The production of rack cured tobacco is about one fourth while that of ground cured is over two thirds of the total

In Burma all tobaccos intended for 11h making and chewing are ground cured. Out of the total production of 83 160 000 lb of cheroot tobacco the estimates for rac! cured are 24 750 000 lb the rest to 8 410 000 lb being ground cured.

(e) Geographical distribution of commercial types—(i) Cigorette types—The principal types of eigerette tobacco are the Virginia and country (Natu or Dest). Adoock and Harrison Special are the chief Virginia varieties the latter being by far the most important

Adooch was considered to be one of the best eigarette tobaccos of the United States of America and was first introduced into India by the Indian Leat Tobacco Development Co, Ltd, in the Guntur area where it was found to grow well, give a satisfactory yield and cure to a good light colour The plant is of medium height with medium internodes, seaves sessile, eliptical, smooth, dark green and thin

The Harrison Special variety was also introduced by the Incian Leaf Tobacco Development Co, Ltd, into the Guntur area where it has almost entirely displaced Adeock. The plant is taller than the Adcock more vigorous and stands better the high temperatures leaves develop a better vellow colour in curing and the colour is con sidered to keep better during storage. The yield obtained is hetter than Adcock

The cultivation of Virginia eigarette tobacco is confined almost entirely to the Guntur district and to a small extent in Kistna and Godavari districts of Madras Presidency Small areas ranging from 100 to 200 acres are grown in Satara (Bombay), and Saharanpur and Jhansı (U P) Sind used to grow about 200 acres but the cultivation has now practically disappeared. In Mysore the area is increasing being about 2,500 acres in 1937 38 and estimated at about 5 000 agres in 1938 39 In Guntur district also the area has increased and was estimated at 20,000 acres in 1936 37 and 80 000 acres in 1937 38 In previous years North Bihar used to produce a fairly large quantity but the cultivation has now been given up owing to the unsatisfactory flavour flue curing

Country (Natu or Desi) tobacco used in the manufacture of cheaper forms of cigarettes and pipe and shag tobacco is the local tobacco grown almost wholly in the districts of Guntur in Madras Presidency and Muzaffarpur in Bihar Different local names are given in the two districts. Thus in Guntur district it may be called Tholkaku (narrow leaf with tendril like tip), Desa Vali (moderately narrow leaf) and Dalshingrihi (broad leaf) In Bihar it is known as Bonri (thick and dark leaf) or Chhuria (medium and yellowish brown leaf) The country (Actu) tobacco of Guntur is the more important for eigarette manufacture. The leaf there is moderately thin in texture, pleasing aroma of mild or neutral strength and the colour ranges from light to dark brown. The light and medium coloured grades are used in the manufacture of cheap cigarettes while the darker grades are sold for pipe and shag tobacco. The length of the leaf is about 15 inches and over while the breadth is between 6 inches and 9 inches. The nicotine and ash contents are about 2 and 18 per cent respectively The country (Desi) tobacco from Bihar is less important in the eigarette trade. The cured leaf is about 15 inches to 18 inches long and 6 inches to 9 inches broad, yellowish brown in colour and medium texture. It is mild in strength but sometimes has an earthy flavour and on this account eigarette manufacturers have been reducing their purchase of this kind of leaf in preference to the country tobacco from Guntur

(11) Cigar types -Cigar leaf produced to a small extent in Madras and Bengal is brown to dark brown in colour, thin texture and strong flavour The length of the leaf varies from 15 inches to LHCAR

24 inches and the breadth from 4 inches to 9 inches. Nicotine contents range from \$\frac{1}{2}\$ to \$\frac{3}{2}\$ per cent while ash contents vary from \$\frac{1}{2}\$ to \$2\$ per cent. The important varieties are Pennsylvania, Sumatra and Burneses Hvania grown in the Rangpur district of Bengal and Usikappal grown in Trichinopoly and Combatore districts of Madras.

(un Cheroot types -The cheroot tobacco grown in Burma has thin to medium texture brown to dark brown colour and medium strength The leaf is 15 inches to 30 inches long and 6 inches to 12 mehes broad and contains an average of about 28 per cent of mico tine and over 19 per cent ash The bulk of the cheroot tobacco grown in Burma belongs to two groups Aun-qua-hie mostly grown north of Thryetmyo and 1 uet pya hise cultivated principally in the south of Thayetmyo Both belong to the same variety which yields leaf of medium texture dark in colour and medium in strength. There is however a difference in flavour and aroma The other varieties are Shweaven, Burmese Harana and Shwe-ta-sol. The first two have narrow leaves thin texture and strong aroma As a result of variations in soil and cultivation conditions there are a number of subgroups under each of these varieties Thus under Shwegum the four principal sub groups are Shuegyin Taung bat kan sai grown on the principal sub groups are sake eggin, lating the age and a subject of best quality with regard to aroma texture and keeping quality, Taung pau-su cultivated on the banks of the "Ielyi Madama-chaung", San-hpai-sai, along the Kyankkyi chaung and Tau-sai or Fe nauk sai grown on poorer types of soils

The Jai, tohacos grown in north Bengal is largely used in Burma for the manufacture of cheroots. It is commonly known as Pools Common in the Calcutta market. The cured leaf of Jai: is greenish brown in colour medium in texture and strength about 15 inches to 22 inches long and 6 inches to 12 inches broad. The average neotine and ash contents are about 382 and 172 per cent respectively. The principal varieties of Jai arising from differences in soil and climatic conditions in the different localities are Bhengi, Meno Bhengi, Nuo-khol, Smdur Khots and Husgli. The Bhengi variety is the one under largely in the manufacture of cheroots. The other varieties are mostly used for hookah and to a considerable extent for chewing and smulf. The "sand leaves" : e, the lowest leaves near the ground, of Jai: tobacco are called Bupat and are sometimes used for the manu facture of low grade eigentetes. The Bupat leaves are yellowish to dark brown in colour thin in texture, about 15 inches to 18 inches long and 9 inches to 12 whees broad

In Madras the leaf grown in Trichinopoly Madura, Combatore and Guntur districts is used for cheroofs as well as for cherong. The colour of the cured leaf is dark brown to almost black and the texture is thin to medium. The length varies between 12 inches to 30 inches and the breadth between 3 inches to 12 inches in accord ance with the district where the tobacco is grown. Thus the Monna-happal variety grown in Madura district has leaf over 27 inches long and 12 inches broad while Usikappal of Combator is between 12

mehes and 19 mehes long and 3 mehes to 6 mehes broad. The modtime contents are about 475 per cent and the ash about 1743 per cent. The local names of the principal varieties grown are Usikappal (grown in Trichinopoly and Combatore) Usenampaloyam, Vattakappal and Ferumarkappal (Combatore), Monakappal (Madura), Lankas (grown in islands formed in river beds) and Chebrole (grown at Chebrole in Guntur district)

(w) Bids types—(a) A Tabacium—Bids tobacco is principally grown in Guyerat and the Nipam areas of the Bombay Presidene; and to a small extent in Uş sore The cured leaf from Guyerat is greenish to yellowish blown in colour, thick in texture, of medium strength, about 12 inches to 15 inches long and 5 mehes to 9 mehes broad. The meotine and ash contents are about 3 and 19 per cent, respectively. The principal valueties are Gandiu, occupying about half the total area under tobacco in the Charotar (Guyerat) area and yielding a broad, thick and rather strong and coarse leaf, Piliu which gives a narrower and shorter leaf, strong in aroma, Keliu, which yields a long and broad leaf, thick in texture and strong in flavour, Nouadiu having greenish yellow and brown leaves and Shengiu with leaves long, narrow and thin.

The bidi tobacco grown in the Nipani area is considered to be stronger than that from Gujerat. The colour of the cured leaf is from yellowish to dark brown, sometimes with dark spots, the texture is thick and the length and breadth vary between 12 mehes to 18 mehes and 6 mehes to 9 mehes, respectively. The flavour is strong and the meotime and ash contents are about 4 and 19 per cent, respectively. The principal varieties are Mirji, Nipani, Sangli and Janani. The first three names are those of the neighbouring tobacco markets while the last named variety is grown to a small extent in Sholapur district.

The bidi leaf produced in Mysore is yellowish brown in colour, medium in texture and strength, above 15 inches long and from 3 inches to 6 inches broad. The meotine content averages about 493 per cent and the ash content about 14 per cent. There are only two varieties, broad leaf and narrow leaf each of which is known by different names in different localities e.g., Aneliii, Choutiliud, Kongumadari, Kanigalmadari, Kathekiii, Balepath, Jerebands and Motubundi. These varieties are also used for chewing.

- (b) N Rustica—A variety of this species called Pandharpuri is grown to some extent in the Nipain area and used for giving strength to bid mixtures. The leaf is light to dark brown in colour, thick in texture, over 12 mehes long and 6 inches to 9 inches broad with a strong flavour as the meotine content ranges from 4 to 8 per cent
- (v) Hookah types—(a) N Tabacum—In Assam, the tobacco used for hookah is known as Desi or Mitha or Jati The leaf is green ish brown in colour, thin to medium in texture, moderately strong, and about 18 inches to 20 inches long and 6 inches to 9 inches broad The thick middle leaves are also used for chewing There are several varieties the chief of which are Snidurkhatua, Kadamadal, Hathania, Chama, Paluakhol, Daria, Salunia and Barapat

The bulk of the Jat; tobacco grown in Bengal and an appreciable quantity of Des; tobacco from Bihar already referred to under cheroot and eigarette tobaccos is used for the hookah

In the United Provinces the Desi tobacco though primarily used for heaving is sometimes used for hookal. It is also known as Poorbi. The cured leaf is long and on arrow (about 18 inches long and 6 incaes broad) greenish to dark brown in colour thin texture and mild in strength.

The leaf of th Des variety of the Punjab is greenish brown in colour thin to medium in texture and strength about 10 inches ong and 3 inches to 6 inches broad. A large number of local names are used in different parts of the province but it appears that most of them can be grouped under four heads.—

(i) \hat\(\lambda \) \hat\(\text{te-leaf} \) long narrow and tapering tip is very much eloquated mild in smoking (ii) \hat\(\hat\) \hat\(\text{te-the} \) plant is dwarf the leaves are thick and broad and possess folds on the surface strong m smoling (iii) \(\hat\) \(\hat\) \(\hat\) \(\hat\) \(\hat\) and the smoking quality is poor and (iv) \(\hat\) \(\h

The bidi tobacco grown in the Charotar (Gujerat) and Nipani areas of the Bombay Presidency is also partly used for hookah

In Hyderabad (Decam) the varieties used for hookah chuttar (which resemble large sized bids) bids and twisted chroots are termed Zarda and Dasi. The leaves of Zarda are about 14 inches to 16 inches long and 6 inches broad thin to medium textured yellowish to light brown in colour and mild in strength. The variety however is not important since it occupies only about 10 per cent of the tobacco area in the State. The Desi variety which occupies 90 per cent of the area has two sub types, one having long parrow leaf about 20 in he to 24 inches in length and 6 inches in breadth the plant growing to a height of about 3 feet and the other with short and broad leaf about 12 inches to 14 inches long and 8 inches broad the plant growing to a height of about 3 feet. The cured leaf is dark brown medium in texture and strong and bitter in flavour. The Desi is also known as Jana or Bhusther or Sulchpetti.

(b) \ Rustica—The principal varieties are Calcuttya Gobhi Peshauari Motihari and Vilayati

Calcuttya or Calcuttia is grown mainly in the Punjab Delha and the United Provinces. The enred leaf is medium to thick and coarse in texture greenish brown in colour and strong and pungent in flavour. The length of the leaf is from 6 inches to 12 inches and the breadth from 3 inches to 6 inches or more. The nieutine content is about 34 per cent while the ash contents are about 29 per cent. This variety is also grown to a small extent in the Kaira district of the Bombay Presidency.

Gobbi grown in the Punjab is similar to Calcuttya except that the plant is smaller and the leaves broader and stronger The Peshauan (also called Patha Peshauan) variety is grown in the North West Frontier Province The cured leaf is greenish brown in colour, thick and coarse in texture and stronger and more pungent in flavour than Calcuttya The length of the leaf varies between 7 inches to 12 inches and the breadth 3 inches to 9 inches The average necture and ash contents are about 4 32 and 25 68 per cent respectively

Motihari, grown in north Bengal, is considered to be the strong est hookah tobacco. The leaf is greenish brown in colour, thick and wrinkled in texture and strong in flavour. The length is about 10 to 15 mehes while the breadth ranges from 6 mehes to 12 mehes The meetine and ash contents are about 6 10 per cent and 22 35 per cent respectively Motihari of Bengal is of two kinds named in accordance with the method of spreading the leaves after curing, Melarat (leaves spread) and Joranat (leaves not spread) Better quality leaves (usually middle leaves) of Melapat are used for chewing, while the rest and the whole of Jorapat are used for hookah. The sand leaves of Mothari are called Bispat which is used in the preparation of mild hookah. The Hotshars variety is also grown in Assim and Bihar In Assam it is also called Vatihar, Vilayati, Man or Hamaku In Bihar Wothars is grown almost entirely in the Purnea district The Votikari grown in Assam and Bihar is considered to be less strong and less thick in texture than that of Bengal The plant and the leaf are similar to Wotthars, but the cured leaf of Vilquat; is somewhat smaller and develops a darker colour than Motthan

(11) Cheuing and snuff types -(a) A Tabacum -There is no variety grown to any appreciable extent solely for chewing or snuff in any part of India except in the North West Frontier Province where to some extent a variety is grown for snuff alone (renerally the same variety is consumed in a number of forms. Thus the Desi variety grown in Bihar is used for hookah, chewing and to some extent for eigarettes The Desi tobacco of Assam and United Pro vinces and the Jati of Bengal are also used for chewing. The tobacco grown in Mysore State is used partly for chewing snuff and bidis Generally leaf with medium to thick texture and pungent aroma is selected for chewing and snuff Colour plays a less dominant part, but for snuff a darker coloured leaf is selected presumably as an indication of strength. There are however certain varieties which are used only for chewing and snuff Thus the Puchakkad tobacco grown in the South Kanara district of Madras is used only for chewing and snuff (Puchakkad being the name of a village) The leaf is dark brown in colour medium textured about 23 inches to 26 mches long and about 6 mches broad Meenampalayam (another village name) tobacco grown in Coimbatore district is considered to be one of the best chewing tobaccos in South India The leaf is dark prown in colour with a whitish bloom thick in texture, about 23 inches to '6 inches long and 9 inches to 12 inches broad with pungent taste The Kali Chopadia and Judi tobaccos grown in Gujerat are also used largely for chewing and to a small extent for snuff. The leaf of Kalı Chonadia is almost black in colour, thick in texture, over 15 inches long and 6 inches to 9 inches broad. The Judi is brown in

colour medium in texture 7 inches to 12 inches long and 3 inches to 6 inches broad. Both varieties are strong and pungent

(b) A Rustica—Outside the North West Frontier Province nowerer Nasuari is grown solely for chewing or snuff. In that province, however Nasuari is grown for snuff alone. Its cured leaf is greenish brown in colour thicl in texture and strong in aroma. Elsewhere leaves well developed and thick in texture with pungent aroma and biting taste from Motil ari and Vilayali varieties and sometimes from Calcuttya are selected for chewing and snuff. The cheaper grades of snuff are usually made from the tobacco dust of any variety.

(5) QUANTITY BETAINED BY CULTIVATORS

In the absence of any dependable farm records it is difficult to estimate the amount of tobacco retained by the cultivators for their domestic use. Unlike the crops like wheat jouar and groundnuts payment of wages in kind for the work done on tobacco fields is rare, but permanent servants engaged on tobacco farms do get some quantity of tobacco annualls for their personal use at the time of harvest Indebtedness has little influence on the quantity retained by cultivators as the proportion of the total crop kept back for domestic use is small in tracts where the tobacco crop forms a main item of eash income from farming. In other areas where tobacco is grown in small patches and as such mainly for cultivators own use indebtedness plays practically no jart on the quantity retained on the holding

Unless grown on a versional area the grower generally keeps only inferior tobacco and rejections for his personal use. No tobacco is retained by him for manufacture and sale of any tobacco product to any apprecable extent. No eigarette tobacco is retained for domestic use.

The proportion of the crop retained varies in accordance with variations in the size of tobacco crop grown by individual cultivators and as such from farm to farm. Under the circumstances any estimate of the amount of tobacco retuined on cultivators holdings can be at best only a rough approximation.

In Bengal where the crop forms an important source of each income in the tobacce producing areas the quantity retained on hold inge comes to 1 I per cent of the total production. On the other hand in Bhar and Orsas where the growers tobacce fields are smaller the proportion comes to 6 25 per cent. In Bombay the proportion is still larger viz 110 per cent. while in Madras the average quantity estimated as retained comes to about 102 per cent of the production. In the C P and Berar tobacce is grown as garden erop in small areas ranging from 0 25 to 1 acre and as such the proportion of the crop retained by growers comes to about 90 per cent. In Assan the proportion is 99 per cent while the figures given for the U P Punjab N W F P and Sind come to 30 per cent. 197 per cent. 49 per cent and 24 per cent respectively. In Barods about 95 ner cent of the production is retained and the proportion in Hyderabad State is 34 per cent the proportion for Mysore Kashmir.

and Patuala being 1 per cent, 5 per cent, and 40 per cent, respec-

Making allowance for all these variations it would appear that about 43 200 tons or 75 per cent, of the total average production of raw tobacco in India are retained on the cultivators holdings for domestic use. The balance may be reckoned as the quantity put on the market.

The proportion of the crop retained for domestic use on farms in Burma approximately comes to about 675 tons or 15 per cent of the average annual production, the balance being put on the market for sale

(6) SEASONAL VARIATION IN THE FLOW OF MARKET SUPPLIES.

Except in the case of Virginia tobacco grown in Mysore and in the U P tobacco is normally a cold weather crop though the periods of sowing and harvesting vary considerably from province to province and in accordance with the type of tobacco grown. The normal periods of sowing transplantine harvesting and marketing of differ ent types grown in important areas in India and Burma are given in Appendix X.

The bulk of the tobacco growers are small farmers who dispose of their crop immediately after harvest. It is estimated that more than three fifths of the tobacco crop produced in India finds its way to the markets in the period from February to July If not properly stored the quality of tobacco deteriorates considerably during the mon oon and since few grovers have adequate storage facilities for storing their tobacco the great majority prefer to sell their crop before the advent of monsoon. Even in the case of those who can afford to store and hold over the crop transport by carts to nearest market or railway station is extremely risky since a small shower during transport by eart might spoil the quality of a whole cartload of tobacco Hence such people want tall after the early mon soon period is over and offer their produce for sale late in September or early in October But the proportion of farmer's crop sold so late after harvest is extremely small, probably not more than 5 per cent of the o al Conditions in the chief producing areas vary to a considerable extent and it would be best to describe them in brief allenbrathus

In Benoal the crop beons to flow in the market soon after harrest that is from March and continues up to October The months of maximum market supplies are May to July About 80 per cent of the crop is disposed of by farmers during this period.

In the Charotar area of the Bombav Presidency the earliest tools or points ready for the market late in December and from this time onwards supplies of newly harvested tobacco crop begin to arrive in the market. The largest supplies are available with the growers during the months of March and April In May thee supplies been to decline and by the end of June the farmers in this area

have sold almost the whole of their tobacce crop excepting in the case of a few well to do growers. With the commencement of mon soon late in June the flow of supplies from the villages ceases almost completely. One of the reasons is the very unsatisfactory condition of roads in this treet during the rains where some of the village become totilly inaccessible for several weeks during the monsoon After the close of the monsoon from October the small remnants of tobacco stocl a begin to more until the new crop is ready again.

In the Nipam area marl et supplies are greatest in February and March (see diugram facing page 29). From April the arrivals begin to decline and by June they drop almost to nothing in the important. Singht and Javisingpur mighets. From this time onwards practically in supplies are received in these two marles till October. In the Nipam marl et however which is one of the most important tobacco marl ets in India; smill supplies are received even during, the mon o n months. The following are the figures of arrivals in Vigam might in 1934.

I	1 065
January	
February	ə 276
March	4 849
Aprıl	2 865
Mav	1 493
June	347
July	197
August	110
September	278
October	513
November	248

Thus over four fifths of the arrivals occur during February to May the months of maximum supplies being February and March

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In the Guntur area of the Madras Presidency the virgima eiga rette tobacco is cured in January and February and over 90 per cent is sold off by the growers by the end of March to exporters and manufacturers. The remaining small proportion is held over by big growers who export to foreign countries on their own account. The country cigarette tobacco is sold off to merchants exporters and manufacturers from April to June. There are extremely few growers who retain or export this type of cigarette tobacco on their own account. Some time elapses before the tobacco purchased from growers is exported outside the Guntur district on account of the

December

^{*}One cart contains approximately 18 maunds of tobacco

time taken in processing the less before export or sale to manufac turers. The average monthly outward traffic from Guntur district is indicated below -

Approximate monthly outward traffic in unmanufactured tobacco from Guntur district (In Monnda)

January

20 465
20 153
50 785
29 046

February March April 43 445 May 23 179 June 32 723 Jule 41 406 August 39 614 September

42 378 October 10 (25 November

8 393 December

Thus about one third of the outward traffic occurs in March to May when almost the only exports are of Virginia digarette tobacco and another one third during August to October which correspond to exports of country cigarette tobacco to Japan and other countries The outward traffic in \ovember and December consists almost entirely of country eigarette tobacco while the exports during Janu ary February and June and July are partly of virginia and partly of country coexette tobacco

In Bihar the harvesting commences in the first week of Febru arv and goes on till the end of March the work being in full swing about the third week of February The curing of the leaf starts immediately after harvest and continues for 4 to 6 weeks. The cured crop commences to come in the market by about the end of March and the maximum supplies in the market are available from about the middle of May to the middle of June Over four fifths of the crop is sold by the growers before the middle of June when the monsoon sets in The remaining crop is offered for sale by the end of early monsoon se end of September or early October

In other areas also sale within two or three months after harvest is the commonest practice. In Assam about three fourths of the crop is sold in May to July and the remaining quantity during the following two or three months. In some districts particularly in Goalpara there are few growers who hold over small surpluses which are sold in small lots say 2 to 5 seers in the local markets whenever they are in need for eash for buying household requirements like of salt fish etc. In the C P and Berar most of the crop being retained by growers for domestic use there is no regular market for local tobacco. The small surplus is sold in village bazars mostly in October and November. The most common practice with the growers in the Punjab is to sell the crop in one lot immediately after harvest. About 80 to 90 per cent of the tobacco is disposed of by the farmers from June to October. In the U P also the same practice is followed and over three fourths of the crop is sold from May to August Trade in tobacco during these four months is quite brisk and figures of outward traffic in the principal tobacco markets in the province (Scoron Campore Farrichabad and Hargaon), show that over half the average annual outward bookings in tobacco occur during this period. The months of high market supplies are June and July

In Baroda State the marketing of growers tobacco commences in January and extends till about the middle of June April and May are the months of maximum market supplies and it is estimated that about 80 per cent of the produce is sold off by the farmers before the end of May The remaining portion comes in the market early in June and again after cessation of the early moreon by about the end of September and continues till early December In Hyderabad State about 80 per cent of the tobacco is marketed by poducers during the period March to September the months of high market supplies being April and May About three fourths of the crop in Hysore State is sold off during February to June the movement by rail at important exporting centres lile Krishnarajaningar during those five months beine about two thirds of the annual traffic The small quantity of cigarette tobacco produced in the State is sold in December and January

In Burma almost all the growers sell their erop immediately after harvest during the four post harvest months. April to July though the sales commence by about the end of March. Figures of outward traffic at three important markets show that about two thirds of the average annual exports are sent out by rail during the four months. April to July.

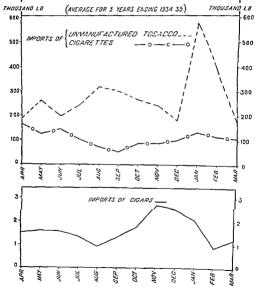
B-Imports

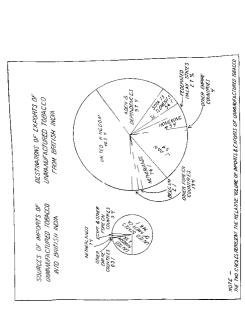
(1) Imports by sea through British ports

(a) Total tobacco —Imports into India consist of unmanufacture! tobacco eigarettes eigars manufactured tobacco for pipes and eigarettes and other sorts of tobacco products (see Appendix XI)

The total average annual imports into India and Burma of all types of unmanufactured and manufactured tobacco are 48 million lb valued at 95 3 lakks of rupees Since 1930 31 the general

AVERAGE MONTHLY IMPORTS INTO BRITISH INDIA & BURMA.





frend of imports has been on the decline although 1935-37 and 1937-38 recorded a rise. The following are the figures.—

Imports of unmanufactured and manufactured tobacco in India and

Period.	Quantity (million lb)	Value (Iskhs of rupees)	
Pre war average	3 2	71 I	
War average	3 6	132 4	
Post war average	6 3	222 9	
1920-26 to 19°9 30 average	10 2	261 0	
1930 31 to 1934 35 average	4.8	9a 3	
1935-36	2.9	61 5	
1936 37	4 3	80 8	
1937 38	4 3	84 4	

It will be apparent that as compared with the imports during the period immediately after the war, the tobacco imports during the quinquenium 1930 31 to 1934-35 declined by 238 per cent in quantity and 572 per cent in value. As compared with the predepression average (1925 26 to 1929 30) the fall has been 53 per cent in quantity and 63 per cent in value. The disproportionately large decline in value is explained by the fact that during the period 1930 31 to 1934 35 the imports of the more expensive times like eightestes eigers and pipe tobaccos declined to a larger extent than those of unmanifactured tobacco.

The average proportion of the imports of different types of tobacco and tobacco products is as follows —

Proportion of imports of different types of tobacco and tobacco

Туре	For 5 yea 1929	For 5 years ending 1929 30		For 5 years ending 1934 35	
•	Quantity	Value	Quantity	Value	
	Per cent	Per cent	Per cent	Per cent	
Unmanufactured tobacco Cigarettes Cigars Pipo and cut tobaccos Other sorts of manufactured tobacco	50 9 46 0 0 3 2 4 0 4	15 7 77 2 0 7 5 8 0 6	69 6 27 2 0 4 1 9 0 9	39 3 51 5 1 0 6 2 2 0	
Total	100 0	100 0	100 0	100 0	

The enormous fall in the proportion of imported eigarettes to the total imports and the rise in the proportion of imports of unmanufactured tobacco are apparent About 97 per cent of the quantity imported consisted of unmanufactured tobacco and eigarettes only, during both the quinquennums, while the value of these two types ranged from 91 to 93 per cent of the total imports

(b) Unmanufactured tobacco—(i) Quantity and value—Unmanufactured tobacco is the most important item in the total quantity of imports. The annual average imports of unmanufactured tobacco amount to about 335 million lb valued at about 375 lakhs of rupees

The most important ports of arrivals are Madras and Calcutta Bombay imports small quantities the average annual imports being about 186 000 lb. Karachi takes the smallest quantity, the imports in 1934 35 being only 62 lb Imports into Rangoon from foreign countries are small and occasional

(11) Sources —The average proportion of imports received from different countries is as follows —

Proportion of imports of unmanufactured tobacco from different countries

Country	Quantity	Value	
	Per cent	Per cent	
United Kingdom	21 9	19 0	
Other Empire countries	0.3	0 2	
Netherlands	1 -	2 3	
Egypt	0.2	0 3	
United States of America	74 6	76 9	
Other foreign countries	1 3	13	
Total	100 0	100 0	

Three fourths of the imported unmanufactured tobacco is there from received from the U S A while imports from the United Kingform—mostly in the form of reexports of American tobacco-leaf from that country—account for about one fifth of the total Phese two sources therefore together constitute about 96 per cent of the imports (see Appendix XII and diagram facing page 41)

The following were the imports from the United Kingdom and the U S A during the last six years -

	1 ear	United Kingdom	USA
		I.b	Lb
1930-31		16 507	1,484,800
1931 32		146 507	2,484,397
1932 33		349 558	4,652,527
1933 34		2,021,805	2,091,954
1934-35		1,133 075	1,762,757
	Average	733,500	2,495 287
1935-36		358,144	1,500,609
1936 37		169 991	3,060,713
1937 38		37,668	2,965,623

It will be seen that during this period imports from both the countries increased till 1932 33 but during the next year there was a precipitate rise in the imports from the United Kingdom as against a similar fall in the imports from the U S A In 1934 35 and 1937 36 the imports from both the countries declined, the decline in the imports from the United Kingdom being most noticeable. The years 1936 37 and 1937-38 recorded a further precipitate decline in the imports from the United Kingdom. In 1936 37 the imports from the United Kingdom. In 1936 37 the imports from the United Singdom. In 1936 37 the imports from the United Singdom.

The unports from the United Kingdom and the U S A are almost wholly of Virginia used in the manufacture of eigerettes. The leaf received from the Netherlands is used mostly in the manufacture of eigers while that from Egypt is exclusively used in making eigerettes. It is estimated that over 95 per cent of the total imports are used in the manufacture of eigerettes.

(111) Periodicity and trend.—January and February are the member of high imports and together account for 29 per cent of the average annual imports (see Appendux XIII and the diagram facing page 40) Imports during July to September are fairly high and account for about 26 per cent of the total March, April, June and December, are months of low imports There has been a perceptible decline in the imports of unmanufactured tobacco during the past 12 years as will be evident from the following figures and the diagram facing this page

Imports of unmanufactured tobacco into India and Burma

Period		Quantity	Value	
		(Millions Ib.)	(Lakhs of	rupees
Pre war average		0.7	4 3 2	2
War average		0.3	. 3	6
Post war average		17	2	1
1925 26 to 1929 30 average		5 2	40	9
1930 31		16	14	4
1931 32		2 8	29	
1932 33	1	5 1	62	3
1933 34		4.2	47	
1934 35		3.0	33	6
Average		3 3	37	5
1935 36		19	27	8
1936 37		3 3 3 1	44	
1937 38		3 1	41	

It will be seen that though the quantitative imports during the past eight years have been lower than those during the pre depression period (five years ending 1929 30), they are still high when compared with the pre war, war and post war averages

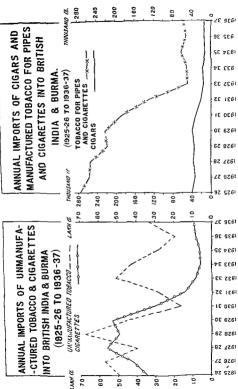
It has already been noted above that 96 per cent of the imports into India and Buima are received from the United King don and the U S A The United Kingdom does not produce any tobacco and almost all the unmanufactured tobacco received from that country is American The American tobacco is used in this country is American. The American tobacco is used in this country is American. The American tobacco is used in this country is American. The American tobacco is used in this country is American. The American tobacco is used in this country is American. The following figures show the rise in the imports from the U S A since the pre war years.

Imports of unmanufactured tobacco from the U S A.

imports of unmanufacturea tooacco from	the U S A.
	Million lb
Pre war average	03
War average	0 03
Post war average	10
Pre depression average	54
Average for 5 years ending 1934 25	25

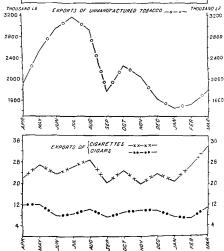
The precipitate fall in the total imports in 1930 31 may be accounted for by the fact that the year was the first year of depression

[Facing page 44



AVERAGE MONTHLY EXPORTS FROM BRITISH INDIA & BURMA.

(AVERAGE FOR 5 YEARS ENDING 193435)



and also due to the movement within the country to boycott foreign goods The imports in 1932 33 suddenly jumped to 51 million lb from 2.8 million lb in 1931 32 due entirely to the increase in the manufacture of cigarettes within the country. The number of cigarette factories in 1929 was 9 which increased to 22 in 1935 It may further be mentioned that British manufacturers have been manufacturing for local consumption the popular English brands of eigarettes in their Indian factories for some years past in 1934-35 and 1935 36 was partly due to the increased production of virginia tobacco in India and to the increase in the import duty from 1934-30 Before this year the import duty on unmanufactured tobacco was Rs 180 per lb, but the Indian Finance Act of 1934 increased it to Rs 3-40 per lb (standard) and Rs 2 120 per lb (preferential provided the article is the produce of either the United Kingdom or a British Colony) Generally it may be stated that the imports in any particular year are affected by the stocks held and the demand for manufacture

(c) Cugarettes—(i) Quantity and value—During the 5 vearsending 1934-30, imports of eigarettes accounted for 272 per cent in quantity and 515 per cent in value of the total imports of tobacco and tobacco products. The annual average import of cigarettes was 13 million bit valued at 491 lakhs of rupees.

All the chief ports in the maritime provinces of India import cigarettes, the largest imports being into Calcutta followed by Bom bay, Karachu Madras and Rangoon in the order of importance

(11) Sources—The proportion of the average annual imports received from different countries is shown in the following table— Proportion of imports of engageties from different countries

Country Quantity Talmo Per cent Per cent United Kingdom 8R 5 93 7 Other Empire countries I 8 China (excluding Hongkong and Macao) 6 1 Japan 17 TISA 14 I 3 0.9 Other foreign countries 05 Total TOO O 100.0

Thus about 90 per cent of the cigarettes are received from the United Kingdom (see Appendix XIV) The following were the imports of cigarettes from the United Kingdom

Imports of eigarettes from the United Kingdom

3 ear	Quantity	1 alue	
	(B)	(Pr)	
1920-31	2 849 434	1 17 94.574	
1931-32	115,60	49,54,530	
1932-33	720 790	26.30 16	
1933-34	4"4.934	16 61 663	
1934-35	7	29 63 69	
Average	11544	4F 01 036	
193,26	\$9,299	°F 63.0 45	
1936-37	8 6 957	39 15 510	
1937-29	1 039 04"	3, 43 495	

It will be seen that imports of eigarettes from the U K have steadily declined from 1930 31 except for a small and progressive recoverr from 1934-35 outwards

(iii) Periolicity and frend—On an average, imports are high during April to July, the period accounting for about 41 per ent of the average annual imports August to November are months of low imports the lowest imports usually occuring in the month of September The period December to March accounts for 35 per cent of the average annual imports (see Appendix XIII and the diagram facing page 40)

As is evident from the diagram facing page 44 imports of eigarcites have enormously declined during the last twelve years and the present imports are far below even the pre war level as can be seen from the following figures —

Imports of cigarettes by sea into India and Burma

Period.	Quant ty	Value	
	(Million Ib)	(Lakle of rupees	
Pre-war avera~	1 73	52 74	
War avera ~	2 62	1 12 79	
Post war avera s	4 13	1 -9 68	
192-2f to 1329 30 average	4 68	2 01 49	
1330:21	3 0¢	1 22 43	
1931 *2	1 44	59 -8	
1932-33	0.63	1 25 95	
1933-34	0.59	19 06	
1934-35	0 61	22 21	
Average.	1 31	49 10	
1935-26	0.83	28 10	
936-3"	0.9*	31 69	
193" 38	1 08	37 22	

The increase in imports during post war period was remark aloue to increasing popularity of eigarette smoking in India in common with many other countries. During the pre-depression period the imports increased still further but from 1930 31 there has been a definite and sudden fall and the imports during the past 7 years have been far below the pre-war level.

This decline has been in no way due to the fall in the popularity of eigarettes. On the contrary the demand for eigarettes is still on the increase. And yet the imports of both the unmanustactured tobacco and eigarettes are falling. In this connection it will be worth considering the imports of eigarettes and unmanustactured tobacco together.

Imports of cigarettes and of unmanufactured tobacco
(In thousands of lb.)

Period	Cigarottes	Unmanu factured tobacco	Total
Pre war average	1 731	736	2 467
War average	2 623	3%	2 948
Post war average	4 129	1 686	5 815
19°0 °6 to 19°9 30 average	4 684	5 189	9 866
1930 31 to 1934 35 average	1 307	3 347	4 654
193a 36	831	1991	2 75
1936-37	919	3 983	4 %0 >
1937 33	1 084	3 061	4 145

The increasing imports of eigarettes and immanufactures tobacco till the commencement of depression were due entirely to the rising demand for cigarettes. The fall from 1930 31 onwards is accounted by the fact that since that year larger quantities of Indian tobacco are being used in the manufacture of eigarettes. This has been made possible by the increase in the production of Virginal behave and in every of the recent increasing imports of an manufactured tobacco it is evident that there is immediate scope for a further rapid increase in the production of eigarette left in India

The sudden fall in the imports in 1930 31 was due to trade depression and boycott of foreign goods but the subsequent decline was almost entirely due to the increase in the local manufacture of eigarettes. The progressive small increase in the mports of eigarettes from 1934-35 has been due to the revision of import duty on eigarettes. Under the import duties in force up to the end of 1933-34 eigarettes paid a duty of Rs 880 per thousand on eigarettes valued at not more than Rs 10-80 per thousand and Rs 190-0 per thousand when the value exceeded Rs 10-8-0 per Linase.

thousand This high duty was to a large extent responsible for diverting to India the manufacture of many popular brands of eigarettes which were formerly imported from England The Indian Finance Act of 1934 revised the rate of duty on eigarettes to 25 per ent ad alorem in addition to either Rs 8-20 per thousand or Rs 3-40 per lb whichever is higher. This revision of duty in effect adversely affected the cheaper varieties of eigarettes imported from abroad thus giving an advantage to the cheaper brands of eigarette made out of Indian grown tobacco while providing for the more expensive brands of eigarettes manufactured out of imported tobacco the shelter of the ordinary revenue duty at rates specified above

- (d) Cigars—(i) Quantity and value—Cigars from about 0.4 per cent in quantity and 10 per cent in value of total imports The average annual imports are small being 19.533 lb valued at IR 96.607
- (11) Sources—The following statement shows the relative mortance of the different countries which export eigers to India (See Appendix XV)

Average proportion of imports of cigars into India and Burma from

different countries					
Country	Quantity per cent	Value per cent			
United Kindom Other Empire countries Aetherlands Philippines Other foreign countries	4 3 6 1 15 9 64 7 9 0	12 1 3 8 22 7 51 9 9 5			
Total	100 0	100 0			

Netherlands and Philippines therefore supply about four fifths of the cipars imported in the country. The following were the imports from these two countries during the six years ending 1935 35

Imports of cigars from Netherlands and Philippines

Year		Netherlands lb	Philippines Ib	
1930 31		6 062	21 31:	
1931 32		3 306	14 071	
1932 33		2 301	10 628	
1933 34		2 109	9 720	
1934 35		1 761	7 485	
	Average	3 108	12 644	
1 1.5 36		2 418	8 704	

The imports from both the countries have therefore continuously declined, except for a slight recovery in 1935-36

The imports of cigars take place mostly through the ports of Calcutta and Bombay, but Rangoon Madras and Karachi also import small quantities

(iii) Periodicity and trend—November to January is the period of high imports and these three months account for over 37 per cent of the average annual imports, (see Appendix XIII and the diagram facing page 40) August and February are months of low imports.

There has been a continuous decline in the imports of eigars since the pre-war period and the imports in 1936-37 were only about a sixth of the average annual imports during the pre-war period

Total imports of cigars in India and Burma

Period.	Quantity	Value
	(thousand lb)	(thousand Rs.)
Pre-war average	79	3 30
War average	52	2 40
Post war average	45	2,76
1925 26 to 1929 30 average	37	184
1930 31	33	1 60
1931-32	21	104
1932 33	15	85
1933 34	17	74
1934-35	12	61
Average	20	97
1935-36	13	70
1936 37	14	61
1937 38	22	71

Except for the small increase over the previous years in 1933 34 and from 1935 36 onwards, the trend of imports has been definitely downwards (see diagram facing page 44). The consumption of cigars has considerably declined in most of the principal countries of the world since after the war and India has not been an exception. There is a high revenue duty of 112½ per cent ad valorcm on imported cigars.

(e) Manufactured tobacco for pupes and agareties—(i) Quantity and value—Manufactured tobacco for pipes and agareties forms about 19 per cent in quantity and 62 per cent in value of the total average imports of tobacco and tobacco products The average annual imports are 55,931 lb valued at Rs 5,88,221

(11) Sources -

Average proportion of the imports of manufactured pipe and cigarette tobacco from different countries

Country	Quantity	Value	
	Per cent	Per cent	
United Kingdom	83 8	87 6	
Australia	8 2	6 3	
Other Empire countries	0 2	0 1	
United States of America	7 7	6-0	
Other foreign countries	0.1		

The United Kingdom is thus by far the most important source of this typ of normalizatured tobacco but imports from this source also hand shown an enormous decrease in recent years owing to the transfer of manufacture to India and the decline in pipe smoking The actual imports from U K during the eight years ending 1937 33 were as follows (see Appendix XVI)

Imports of manufactured tobacco for pipes and cigarettes from the United Kingdom

Year		Quantity	Value
		ľb	Rs
1930 31		166 672	9 96 073
1931 32		115,126	7,87,853
1932 33		35 656	2,37,098
1933 34		37,565	2,36,345
1934 35		47,021	3,17 746
	Average	80,408	5 15,023
1935 36		35,478	2 43 82
1936 37		36 972	1 63 169
1937 38	 	37,981	2,50,321

Except for a small improvement in 1933 34, 1934-35, 1936-37 and 1937-38, the imports have declined and in 1937-38 were not even one fourth of the imports in 1930 31

On an average more than half the total imports from all coun tres are received through the ports of Bengal. Burma receives about one-third the quantity imported by Bengal ports, while imports through Bombay and Karachi are small being about 12 000 lb, at each port

(m) Periodicity and trend—Except during September and October, the average monthly imports range from 7,400 lb to 9,600 lb per month (see Appendix XIII) In September and October the range of imports is between five to six thousand pounds per month March and April are months of large imports and together account for about a fifth of the average annual imports

Figures of imports of manufactured tobacco for pipes and cigarettes are being separately recorded only from 1920-21 and hence comparison of the present imports with pre-war and war averages is not possible. The following figures and the diagram facing page 44 show the trend of imports during the last 12 vears

Total imports of manufactured tobacco for pipes and cigarettes in

Period	Quantity	Value	
	(thousand lb)	(thouand Rs)	
1925 26 to 1929 30 average	246	15 06	
1930 31	190	10,89	
1931 32	129	8 54	
1932 33	49	3,06	
1933 34	50	3 00	
1934-35	62	3,91	
Average	96	5,88	
1935-36	51	3 20	
1936-37	58	2 36	
1937 38	59	3 45	

The enormous decline in the imports is apparent, the average annual imports during the five years ending 1934 35 being only about a little more than a third of the average annual imports during the quinquennum ending 1929-30. The demand for this type of tobacco has fallen during the last 12 years due to the influx of cheaper brands of eigarettes and the fall in favour of the use of pipes and "zg-zag" paper used for hand made eigarettes

- (f) Other sorts of manufactured tobacco—The other sorts of annufactured tobacco consist mainly of snutf, clewung tobacco and smoking tobacco, other than the pipe and eigerette tobacco The average annual quantity imported is about 42,000 lb valued it Rs 1,87,000 About 85 per cent of the imports are received from the United Kingdom, and 12 per cent from the United Kingdom, and 12 per cent from a United States of America The imports do not show any definite trend and during the past seven years have ranged from 33,000 lb to 47,000 lb per year (see Appendix XI)
- (g) Import duty—There is a revenue duty on unmanufactured and manufactured tobacco imported into British India, unmanufact ured tobacco coming under Empire preference The following state ment shows the existing rates of import duty current since 1934 35—

Rates of import duty on unmanufactured and manufactured

	Standard rate of	Preferential rate of duty if the article is the produce or manufacture of—		
	duty	United Kingdom	British colony	
1 Tobacco Unmanufac tured*	Rs 3 4 0 per lb	t	Rs 2 12 0 per lb	
2 Cigarettes	25% ad valorem and in addition either Rs 8 2 0 per thousand or Rs 3 4 0 per lb which ever is higher			
3 Cigare	1121% ad valorem		.,	
4 Tobacco manufactur ed not otherwise speci fied	Rs 3 12 0 per lb			

(2) IMPORTS BY LAND FRONTIER ROUTES

Fairly large quantities almost wholls unmanufactured tobaces used for hoshin and smoking are imported through land frontier routes adjacent to the N W F P. Kashmir, U F. Bhar, Bengal Assam and Burna (see Appendices XVII and XVIII) The following figures indicate the quantities imported into India and Burma.

^{*} Tobacco kaf for the manufacture of cigars when proved to have been imported for use in a cigar factory is liable to duty at Rs 2 per lb (Stundard) and Rs 180 per lb (Preferential)

tSince tobacco is not produced in the United Kingdom, the question of preference on unmanufactured tobacco imported from the United Kingdom does, not arise

Imports through land frontier routes (In thousands of lb.)

Period	India	Burma
1925 26 to 1979 30 average	10 837	456
1930-31	9 820	259
1931 32	9 238	203
193 ' 33	11 239	275
1933 34	7,629	332
1934-35	o 793	118
 Average 	8,744	237
1935-36	9 625	90
1936-37	8 214	125

The imports have thus declined by about 20 per cent in India and 48 per cent. in Burma during the 5 years ending 1934-35 as compared with the quinqueninal average ending 1929-30 but later years again show a rising tendency. Regarding the periodicity of these imports it is observed that imports into India commence to rise in March till they reach their maximum in June. The imports aroung the three months Max to July, constitute about 44 per cent. of the average annual imports. From August there is a continuous decline till February. In Burma June and July are the months of high imports and together contribute about 44 per cent of the average annual imports. June is the month of maximum imports, accounting for over a fourth of the annual imports while the months of low imports are October and November.

(3) IMPORTS BY SEA THROUGH KATHIAWAR AND TRAVANCORE PORTS

Imports through hathiawar ports are small and consist mainly of crearettes. The following figures show the average annual imports (average for 5 years ending 1930-36)

Unmanufactured tobacco		11
Cigarettes		76 109
Cigars		822
Tobacco for pipes and eigarettes		95
	Total	77 037

Travancore imports only unmanufactured tobacco and ciga rettes the averages (for two years 1934-35 and 1935-36) of annual quantities imported being as below —

		lb.
Unmanufactured tobacco		1 508 104
Cigarettes		689
	Total	1.508 784

All the unmanufactured tobacco imported into Travancore from depton and is a special type of chewing leaf extremely popular in Travancore and Cochin States. Only the Travancore Government is permitted to import this tobacco from Cyclon subject to a maximum import of 5745 candles (1 candles 600 lb) in one Malayalam official vear (August to July) and amport dativ of Rs 135 per candly. Am quantity imported in excess of this figure is liable to duty at the rate of Rs 900 per candly.

This type of tobacu, is called Jafina as it is imported direct by sea from Jafina in Ceyloli. The principal villages in Jafina from where Tranvancore gets its supply are tlavatty, Punnalsi kattivan Vaavalian Puttur Atchuveli and Thirunelveli. The imports are confined almost wholl to xis months from October to March because of unfavourable weather conditions in sea during the remaining period of the year for schooners which transport tobaco from Ceylon to Travancor. The variet closely resembles the Meenamphaly am tobaceo grown in Combatore district of Madras in physical characteristics and it will be worth investigating at least two aspects to replace Jafina. (1) whether the taste of Meenampalayam cannot be changed to that of Jafina by transferring the micro organism that are present in Jaffina to Meenamphalya am tobaceo, and (2) whe ther Jafina tobacco cannot be grown and cured under conditions prevailing in India.

(4) IMPORTS THROUGH FOREIGN POSSESSIONS

Imports through the ports of Foreign Possessions (French and Portuguese) in India are small and almost negligible. The average annual imports into the French Possessions from foreign countries are about 14 000 1b of tobacco and tobacco products. The latest figures available (1933) for the Portuguese Possessions indicate that the imports of tobacco and tobacco products are a little over a mil ion lb of which over 90 per cent are imported from Bombay The official figures of imports into British India and Indian States from these two Foreign Possessions are almost nil.

(5) TOTAL IMPORTS INTO INDIA AND BURMA BY SEA AND LAND

The average annual total imports of different types of unmanufactured and monufactured tobacco into India and Burma by sea and land are indicated in the following statement

Average annual imports into India and Buima by sea and land (In thousands)

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(In the	resuga)				
	British p	orts	Land Fr	ont er	Travar	war and score ports	Total	
Туре		Ra	1b	Rs	1b	Ra	16	Rs
				8 73*	1 508	5 15	13 836	51 3a
Unmanufactured Tobacco.	3 347	37 47	8 981	8 13	1	53	1 384	43 63
Cigarettes	1 307	49 10	1		. 1	2	20	99
Cigars	19	97	1	l	1 -		96	5 83
Tobacco for pipes and eigarettes.	96	5 83		1	1		42	1 87
Other sorts of manu- factured tobacco.	42	187	_			<u> </u>	15 3 8	1 09 72
Total	4,811			1		_		

^{*}Values of imports by land front er routes are not declared and hence these imports are valued at an average pince (Ra. 8 per maund) ruling in areas where those imports occur

C -Exports

(1) EXPORTS BY SEA THROUGH BRITISH PORTS

(a) Total tobacco - Exports of tobacco from India and Burma consist principally of unmanufactured tobacco eigars and eigarettes (see Appendix XIX)

The total average annual exports of all types of manufactured and unmanufactured tobacco are 2686 million lb valued at 8837 lakhs of rupees The following figures indicate the trend of these total exports --

Exports of unmanufactured and manufactured tobacco from India and Burma

Period	Quantity	Value
	(Million 1b)	(lakhs of
	22 35	rupees) 36 91
Pre war average	20 90	56 23
War average Post war average	27 37	84 90
1925 % to 1999 30 average	31 61	111 59
1930 31 to 1934 35 average	26 86	88 37 9° 43
1935 36	29 60	97 1
1936 37	6 4	116 29
1937 38		1

These average annual export figures indicate that the exports microased from the pre war period till 1929 30. The average annual exports during the 5 years ending 1929 30 were higher by about 41 per cent in quantity and over two hundred per cent in value over the pre war average exports. During the quinquennum ending 1931 35 the average annual exports declined by 15 per cent in value over the pre depression period (5 years ending 1929 30) but were higher by 20 per cent in quantity and about 140 per cent in value as compared with the pre-war average. The exports in 1937 38 were the highest during the past 12 years.

The relative proportion of the average exports of different types of tobacco and tobacco products is as follows —

Proportion of exports of different types of tobacco and tobacco products

	For 5 years 19 9	s ending 30	For 5 years ending 1934 35	
Type	Quantity	Value	Quantity	V alue.
,	%	%	%	%
Unmanufactured tobacco	96 8	93 8	96 7	94 7
Cigars	10	* 8	0.4	15
Cigarettes	0.8	2 9	11	2 8
Other sorts of manufactured tobacco	14	1 2	18	1 0
Total	100 0	100 0	100 0	100 0

The proportions have changed but slightly during the two quinquenniums in the case of unmanufactured tobacco. The proportion of cigars dropped down to 0.4 from 1 in weight while that of cigarettes increased from 0.8 to 11 per cent Unmanufactured tobacco is by far the most important in the export trade

(b) I nmanufactured tobacco —

(i) Quantity and value —The annual average exports of unmanufactured tobacco are 25 97 million lb valued at 83 69 lakks of rupees

Of the average annual exports the ports from Madras Presidency export about 61 per cent of the total Bombay exports about 29 per cent while the share of the ports in Bengal and Burma comes to about 11 per cent and 8 per cent respectively (see Appendix XX)

(si) Destinations—The proportion of the average annual exports to different countries us as follows—
Average proportion of exports of unmanufactured tobacco to different countries.

Country	ţ	Quantity o	Value
Crited Kingdom Aden and Dependencies Stra is Settlements Federated Malaya States		40 3 19 5 5 6 2 7	46 4 23 5 6 2 3 0
Hongkong Other Empire countries Japan Aetherlands	1	4 5 1 1 15 4 7 6	1 2 1 1 13 3 3 3 0 6
Belgium Other foreign countries Total	-	1 9	100 0

The Empire countries take 73 9 per cent in weight and 814 per cent in value of the average annual exports. Over two fiths of the quantitative exports go to the United Kingdom while Aden and Dependencies absorb another one fifth Among the foreign countries Japan and Vetherlands are important buyers and together account for 23 per cent of the average annual weight of unmanifactured tobacco exported (see Appendix XXI and diagram facing page 41)

The following were the exports to the United Kingdom Aden and Dependencies, Japan and Netherland, during the past eight years —

Exports of unmanufactured tobacco to certain countries
(In thousands of lb.)

lear	United Kingdon		Japan	\ether lands
1930 31	9 90	6 5 364	3 841	2 341
1931 32	10 62	6 4 42	3 00	945
1939 23	9 04	6 4 394	3 140	166
1933 34	13 °0	9 5 398	3 313	3 .1
1934 35	9 26	0 6 040	J 899	140
Aver	10 43	5 120	3 980	19
1935 36	11 ~0	7 315	5 694	1 31
1936 3	13 79	s 8 336	3 000	111
1937 3%	1 23	1 7 189	9 317	1 348

These four countries take 83 per cent of the average annual exports

Indian tobacco is assuming increasing importance in the English market and at present over one fourth of the unmanufactured tobacco imported into Britain from Empire countries is Indian During the past four years Indian virginia flue cured tobacco has been leenly demanded in the English market as will be evident from the following figures of exports to the United Kingdom —

onowing figures of	exports to the	e Cunter	ILINGUOM	
, ,,	-			Million 1b
1934 35				93
19% 36				117
1936 37				133
1937 38				21 2
1938 39 (for seve	n montls	April to	October	

Further resibilities of expunsion of trade with the United Kingdom and other countries will be referred to in more detail under the chapter on Demand but it is evident from the figures given above and in the foregoing table that the greatest possibilities he in the expunsion of exports to the United Kingdom

1938)

Exports to Aden and Dependencies are also increasing from 1933 34. In 1936 37 the exports were 8.3 million lb as against 5.4 million lb un 1933 34 a raise of 2.9 million lb un 1937 38 however the exports recorded a fail. Exports to Netherlands appear to be irregular but the general trend is definitely downwards. Japan has been taking larger quantities since 1933 34 but the sudden fail from 1936 37 appears to be very largely due to disturbed conditions of trade n Japan on account of the war trouble in the far eastern countries.

(iii) Periodicity and trend—On an iverage exports are high during Viav to August the four months accounting for about 45 per cent of the annual average exports of unmanufactured tobacco. In September the exports decline but again rise in October and November the two months accounting for 165 per cent of the annual exports. December to February are months of low exports which commence to rise in March and reach their maximum in July (see Arpendix VIII and the diagram facing page 45). Largest exports to the United Kingdom occur during Viav and June and the lowest in February and March. April to June are months of exports of fine curred eigarette leaf from Vadarsa Pressdeney to the United Kingdom while the season of exports to Japan which generally commences late in September is at its height in October and November and ends by about February. Exports from Bombay to Aden and Dependences are head during Vay to August.

Both in quality and value the present exports of unmanufactured tobiceo are considerably above the pre-war and war period average exports and it is further important to note that the exports even during the depression period are slightly higher as compared with the average exports during the post war vest.

Exports of unmanufactured tobacco from India and Burma.

Period	uantity	Value	
	fillion Ib)	(Lakhs of	
_		rupees)	
Pre-war average	20 43	23 27	
War average	24 fb	41 56	
Post-war average	20 93	73 47	
19°5 26 to 19°9 30 averan	30 61	104 57	
1930 31	27 97	96 73	
1931-32	2a 43	80 69	
1932-33	20 99	73 41	
1933 34	99 21	90 13	
1934 35	26 30	77 55	
Average	20 97	83 69	
1935-36	28 74	87 96	
1936 37	28 53	87 76	
1937-38	35 94	109 37	

It is apparent that the exports in 1937 38 were higher than those during the pre-depression period. The trend from 1933 36 is definitely upwards. During the seven months. April to October 1938 the exports to foreign countries (excluding Burma) from India excluding Burma were 3657 million lb valued at 144 60 lakls of rupees as against 20 67 million lb and 86 134 lakls of rupees and 2739 million lb and 80 50 lakls of rupees during the corresponding period in 1936 and 1937 respectively. In this connection it will be worth considering the exports of the four martime Indian provinces and Burma to understand the relative changes that have occurred during the past 12 years (see Appendix XX).

Exports of unmanufactured tobacco from the ports of different Indian provinces and Burma

	(M	illion lb)	Durma		
Exported from the ports of	19% 26 to 19% 30 average	1930 31 to 1934 35 average	1935-36	1936-37	1937 38
Bengal	4 33	2 86	0 33	0 25	1 72
Madras	13 35	15 -9	20 03	19 41	25 91
Bombay	5 So	5 20	7 28	8 32	7 19
Sind	0 05	0 02	0 01	0 03	0 00
Burma	7 03	2 10	0 99	0 52	1 10
Total	30 61	25 97	28 74	28 53	35 94

It is evident that exports from Madras are steadily rising while those from Bombar also indicate an increase except for the fall in 1937 3- Exports from Sind are insignificant, but those from Bengal and Burma have declined enormously during the past 13 years, though 1934 38 recorded a rise. The following figures show the rise or fall of exports to different countries—

Exports of unmanufactured tobacco from India and Burma to different countries

(Million ib)					
Country	1925-26 to 1979 20 Average	1930-31 to 1934-35 Average			
United Kingdom	9 58	10 44			
Aden and Dependencies	5 77	5 13			
Straits Settlements	4 12	1 45			
Federated Malaya States	2 52	0 71			
Hongkong	2 72	1 18			
Netherlands	2 01	1 98			
Belgium	0 47	0 32			
Japan	2 3°	3 98			
Germany	1 30	0 02			
	1				

The rase in the exports to the United Kingdom and Japan is apparent Almost all this rise was shared by Madras The slight fall in the exports to Aden and Dependencies was all shared by Bombay but made up by the considerable rice in 1935 36 and 1936 37. The fall in the exports to Straits Settlements Hongkong, Federated Malays States Netherlands Belgium and Germany was almost wholly shared by Bengal and Burma. In 1925 26 Bengal exported over 70 million lb mainly to Netherlands Germany and Japan But during the very next vear her exports dwindled to 25 million lb while in 1930 36 and 1936 37 the exports from Bengal were only about 325 000 lb and 246 000 lb respectively. Her exports to Germany have stopped while those to Netherlands have enormously declined Japan now buys wholly from Madras. The annual average exports from Burma during the 5 years ending 1920 ower? Findlion lb which declined to 21 million lb during the quinquennium ending 1934 35 while her exports during 1935 36 and 1936-37 were only 939 300 lb and 523 000 lb respectively losing mostly in trade with Straits Settlements. Federated Malay States and Honekong.

(c) Cigars -

⁽i) Quantity and talue — Cigars account for about 0.4 per cent in quantity and 1.5 per cent in value of total exports of unmanu factured and manufactured tobacco The average annual exports of

eigars during the 5 years ending 1934-3; were 112403 lb valued at about 1.29 lb bs of runces

Almost 62 per cent of the annual average exports of eigers through Rangoon (see Appendix XXII) The ports in the Madras Presidence export one third of the total white the exports through the ports of Bombay and Bengal are small being about 26 per cent and 17 per cent of the total respectively.

(1) Destinations.—The following statement gives the relative importance of the different countries that take Indian cigars (see Appendix XXIII)

Average proportion of exports of cigars from India and Burma to different countries

Country	Quantity	Value
United Kingdom Adea and Dependencies Ceylon Straits Settlements Other Empire countries Iraq Sizu	30 3 3 3 9 11 1 1 39 2 2 2 9 2 1 4 6	% 35 4 4 7 10 9 31 8 2 9 3 1 3 8
Other foreign countries Total	100 0	100 0

The United Kingdom Straits Settlements and Ceylon are there fore important buyers and together account for 806 per cent in quantity and 781 per cent in value of the total average exports. The following were the exports to these three countries during the past six years —

Exports of cigars to important countries
(Thousand lb.)

Year	United Kingdom	Straits Settlements	Cevlon	
1930 31	45	116	12	
1931 3°	24	59	12	
1933 -33	29	28	18	
1933 34	34	6	12	
1931-35	3"	12	8	
Average	34	41	1	
193o 36	43	9	10	
1936-37	29	5	10	
1937 38	33	4	11	

It will be noticed that while exports to the United Kingdom are slowly rising from 1933 34, those to the Straits Settlements have enormously declined Exports to Ceylon show no definite trend, but if anything, they are downwards in recent years During the predepression period (5 years ending 1929-30), the United Kingdom imported 45,000 lb of Indian cigars on an average, so that the fall during the five years ending 1934-35 was a little over 24 per cent. The average annual exports to the Straits Settlements during the predepression period were as high as 166,000 lb as against only 44,000 lb during the five years ending 1934-35, a fall of over 73 per cent. In 1935-36 Straits Settlements imported only about 9,000 lb of eigars Another fair importer of Indian eigars during the predepression period was Siam. The annual average exports to Siam during the five years ending 1929-30 were 32 000 lb which declined to only 12 lb in 1934-35. It is therefore evident that the exports of cigars to Straits Settlements and Siam two important buyers till the year 1930-31 have not only declined at an enormous speed, but are on the terge of disappearance

(m) Periodicity and trend—March to May are the months of high exports and together account for about 32 per cent of the average annual exports. January and February are the months of low exports.

The exports of engars have enormously declined during the past 30 years and the present exports are about 4 or 5 per cent of the average annual exports during the pre war period as can be seen from the following firmers —

Exports of cigars from India and Burma

		Per	bod	Quantity	Value i
				(thousand lb)	(thousand Rs).
Pre-war av War averag Post war av 1925 26 to	erare	rerage		1 53a 1,260 4 s0 303	13 01 11,23 6 09 3,17
1930-31 1931-32 1932-33 1933-34 1934-35				90 64 70	2 46 1,33 95 85 86
			Average	112	1,29
1935-36 1936-37 1937-33	::	::	• .	73 60 62	1,01 80 95

The decline has been enormous and almost continuous As already noted earlier, the consumption of cigars has considerably declined all over the world and the fall in the exports of Indian cigars has been almost entirely due to this decline in demand. In this decline of trade, Burma has suffered most The annual average exports of Burma cigars during the pre depression period were 225 000 lb which declined to 69,000 lb during the 5 years ending 1934 35 In 1935 36 she exported only 52 000 lb (see Appendix XXII) Burma lost in trade mostly with Straits Settlements and Siam and at present her principal buyer is the United Kingdom which imported 39 000 lb of Burma cigars in 1935 36 Exports from Madras averaged 69,000 lb per year during the 5 years ending 1929 30 but during the next 5 years the average exports came down to In 1935 36 exports from Madras were only 19 000 lb ports from Madras consist of superior eigars prepared from the wrapper leaf imported from Netherlands and also country cheroots exported mainly to Cevlon the United Kingdom and Aden and cheroots generally go to Straits Settlements and other countries

(d) Cigarettes --

- (1) Quantity and value—Cigarettes form a small proportion of the total tobacco exports from India The average annual exports are 296 000 lb valued at 2,52 lakbs of rupees (see Appendix XXIV) Almost 98 per cent of the annual average exports of cigarettes are despatched from the ports of the Madras Presidency Burma exports no cigarettes.
- (n) Destinations—Ceylon is the largest customer buying about half the average exports The other important buyers are the Straits Settlements and Federated Malay States

Proportion of the average annual exports of eigarettes from India to different countries

Country	Quantity	Value
Ceylon Stratts Settlements Federated Malaya States Other Countries	Per cent 49 1 21 2 26 9 2 8	Per cent 52 0 18 0 27 0 3 0
Total	100 0	100 (

The exports to the first three countries during the past 8 years were as follows -

Exports of eigarettes from India to important equatries (Thousand lb)

`	ear	Ceylon	Straits Setilements	Federated Malaya States
1930 31 1931 37 1937 33 1933 34		186 121 75 141 204	8° 93 7- 44 19	64 87 102 68 78
1934 35	Average	140	63	80
1935 36 1936 3 1937 38	•	228 97 320	15 8 5	83 67 47

It is obvious that exports to Cevlon are increasing from 1933 34 but those to Straits Settlements have enormously declined during the past 6 years

(ui) Periodicity and trend -There is not much marked varia tion in the monthly exports of a garcties the average monthly exports ranging from 20 000 to 28 000 lb March seems to be the only month of high exports (see diagram facing page 45) when on an average about 34 000 lb are exported

The exports of eigarettes show an upward trend as can be seen from the following statement -

Total exports* of cigarettes from India

Period	Quantity	\ alue
Pro war average War average Post war avera e 1922, 26 to 1979 30 average	(Thousand 1b) 31 177 90 249	(Thousand Rs.) 15 2 15 1 54 2 50
1920 26 to 1979 30 average 1930 31 1933 32 1932 33 1933 34	342 313 264 258 305	3 16 2 66 2 12 2 13 2 51
Average	296	2 52
193 36 1936 37 1937 33	379 372 419	2 85 3 40 4 98

^{*}Eveluding exports of eigerettes from India to Burma, which amounted to 2.1 million Ib valued at 65 lakks of rupees in 1937.38

It is evident that the exports of eigarettes are increasing due mainly to increase in the production of eigarettes in India. The exports in 1947 38 were the highest recorded so far

(cf) Other sorts of manufactured tobacco—The other sorts of manufactured tobacco exported consist mainly of bids prepared hoolah and chewing tobaccos and snuff. The average annual quan tity exported is 450 000. Ib valued at Rs 59 000. On an average about 96 per cent of the exports occur through the ports of Bengal Cevlon and Maldives are the important buvers among the Empire countries and together tale about 42 per cent of the average annual exports. Muskat Territory Truchi Oman and other Native States in Arabia are the chief foreign purchasers and together account for 14 per cen. of the average annual exports.

(2) EXPORTS BY LAND FRONTIPE ROUTES

Large quantities, almost wholly unmanufactured tobacco used for houldn' and smolling are exported through land frontier rou es adjacent to \ W F P Kashmir L P Bihar Bengal Assam and Burma (see Appendices XVII and XVIII)

The following statement shows the exports from India and Burma ---

Exports through land frontier routes
(Thousand lb)

Period.	Penod.		Burma.	
1925-26 to 19°9-30 Average		10 338	3 2	
1939-31		10 3.0	°28	
1931-32		11 010	186	
1932-33		9 132	9	
1933-34		879	191	
1934 35		9 103	1.6	
	Average	9 689	164	
1935-36	-	9 09	308	
1936-37		9,209	4,0	

The exports thus declined by about 6 per cent in India and 36 per cent in Burma during the five years ending 1934 35 as compared with the quinquenual average exports ending 1939 36 April to July are months of high exports from India and the period LINCAR

accounting for 44 per cent of the average annual exports Minimum exports occur in February From March they commence to rise and reach the maximum usually in the month of July

In Burma there is not much periodical variation in exports the average monthly outgo ranging from a hundred to two hundred manuals.

(3) Exports by sea through Kathiawar and Travancore Ports.

There are no exports of tobacco or tobacco products from Travancore ports The average annual exports from Kathiawar ports are extremely small being as below —

		16
	Manufactured tobacco	1,123
	Cigars	533
ŧ	Other sorts of manufactured tobacco	3,530
,	Total	5,186

(4) Exports through Foreign Possessions

Exports through the ports of French and Portuguese Possessions in India are small and negligible. The average annual exports from the French Possessions are about 2000 lb while those from the Pottuguese Possessions also come to about the same figure Almost the whole of this is foreign tobacco re exported.

diffuse the whole of this is foreign tobacco re-exported

(5) Total exports from India and Burma by sea and land

The average annual total exports of different types of unmanufactured and manufactured tobreco from India and Burma, by sea and land are shown in the following statement—

Average annual exports from India and Burma by sea and land
(In thousands)

Туре	Br tish p	orts	Land Fro Route		Kath an Traya States	d ncore	Tota	si.
	њ	Rs	Tb	Rs	lb	Rs	1ь	Ra.
Unmanufactured tobacco	25 969	83 69	9 853	9 58*	1	l t	35 823	93 27
Cigars	112	1 29			1	1	113	1 30
C garettes	296	2,51	! !	- 1		}	296	251
Otler sorts of manu factured tobacco	485	89			4	,	489	90
Total	°6 86°	89 38	9 853	9 58	6	2	36 721	97 98

^{*}Values of exports by land frontier routes are not declared and these exports are val ed at an average price (Rs 8 per mannd) ruling in areas from where these exports occur YPalue less than Rs 200.

D.-Re-exports

Re-export trade is exceedingly small and consists principally of unmanufactured tobacco, eigarettes, pipe and cut tobacco. Unmanufactured tobacco is exported mostly to foreign countries while eigarettes, pipe and cut tobaccos are exported principally to Empire countries, as can be seen from the statement in Appendix XXV.

Re exports of unmanufactured tobacco from India and Burma.

	ear	Quantity	Value
		lb	Rs
		2 069	3,541
930 31		2,489	2,061
1931 32	•	17 645	3,183
1932 33		18 612	31,659
1933 34		4,815	3,574
1934 35	Average	9,126	8 804
	A ready-	51,196	34,581
1935 36	•	4,730	3,073
1936-37		47 501	31,939
1937 38			

Re exports of manufactured tobacco from India and Burma

		Year				Quantity	Value
						lbs	Rs
					1	14 331	55,606
1930-31					.	19,559	61,347
1931 32	-		•	••		8.812	30 075
1932 33						7,416	25,325
1933-34	••	••		••	.	40,153	127,303
1934 35	••	•	•	••	.	18,054	59,932
			A	verage	••		10,480
193., 36						10,736	48,438
1930 30	••	•	•••			9,752	35,829
1936-37	••			•			25,055
1937-38						8,711	25,030

The reexport trade in unmanufactured and manufactured to the forms but a very small part of the total export and import trade in tobacco and tobacco products Unmanufactured tobacco is re-exported principally to Aden and Dependences among the Empire countries and small quantities to the United States of America among the foreign countries Manufactured tobacco is exported chiefly to the United Kingdom Aden and Dependences Cevlon Strats Settlements and Lahrein Islands among the Empire countries and Mucket Territers and Trucial Oman and China and Janan among the foreign countries

E .- Total and net available supplies

((Thou and Ib)			19°6-37 (Thou.and Ib)		
	Ind a		Lurma	In lia	Burma	
Gross product on in the pre- cedin, year Total Supplies	1 42J 2	28	1,0,380	1 346 940	103 049	
Net product on available for consumption allowing J per cent loss on dria e and waste in manufac- ture	1 143 3	×9	80 84	1 /78 99>	8° 43 <u>7</u>	
Imports by sea	61	-)	13 809	9 227	15 567	
Imports by land	96	26	90	8,215	125	
Deduct—	1191	83	94 681	1 094 434	98 119	
Exports and re-exports by sea	42	03	2 917	44 274	4 170	
Exports and re-exports by land	9-	103	308	9 230	430	
	51.	06	3 220	53 454	4 600	
Balance available	1 107	7	g1 456	1 040 980	93 519	

On the basis of estimated population in 1930-36 and 1936-37 the per capida net available supply in India and Burma during these two years was 31 and 29 lb in India and 66 lb and 67 lb in Burma respectively

INTER CHAPTER ONE

On the average glowers sell 92½ per cent of their tobreco crop. The annual value of the crop in India is somewhere about 18 closes of impees, and constitutes, therefore, an important source of ready cash to the cultivators. At present tobacco occupies only 4 out of every 1,000 acres of the sown area but this acreage is steadily expunding at the rate of about 2 per cent. per annum About one million aries are grown in the Provinces, 300,000 in the India States and 100,000 acres in Burma.

More than half the Indian production is concentrated in 5 clearly defined zones. The North Bengal (including Cooch Behrr State) and North Bihar areas are both important for the production of hoohah and other types of tobacco. The Charotan area in Gujerat along with that of Nipani in the south of Bombry Presidency have a special reputation for their bidi tobaccos, whereas the remaining area, that of Guntur in Madras Presidency, is outstanding for the production of high class eigenetic leaf

Many different types of growing plants and of manu factured products are included under the term "tobacco" and it is not always crist to understand in what sense the word is used. Cultivators, for example, who grow the tobacco do not always know to what use it will be put and would not recognise it in its final form. Similarly, the man who smokes, chews or smifts tobacco would be quite unable to recognise the product growing in the helds. It is unfortunate also that many members of the agricultural departments apparently do not know the fundamental characteristics and uses of the different types of tobacco as grown in their districts.

There are two main botanical types, viz, Nicotiana Rustica and Nicotiana Tabacum. The former has a yellow flower and a coaise textured leaf, bload and rounded at the apex and is generally a more robust and densely growing plant than N Tabacum, which has a white or pink flower and an elongated, comparatively smooth and generally pointed leaf

The two species should be clearly distinguished The cured leaf of N Rustica is dark or greenish brown, the meotine content may be as high as 8 per cent and its chief use is in the preparation of hookak, chewing and suiff tobucos. The cured leaf of N Tabacum ranges from lenior yellow to reddish from the meotine content has be as low as been cert and it provides the entire supply of eigerette eiger cheroot and built tobaccos as well as to a great extent being put to the same uses as N Rustica

N Rustica represents in India one third of the total production and is confined to the region north of a line joining C identia and Karachi. In this region about one third of the λ Tabacum crop is also produced the rest growing in pennisular India south of a line Ahmedabad Calcutti. λ Tabacum provides nearly the whole of the cyporit trade in bidi and other smoking tobaccos, a small proportion only consisting of N Rustica Although λ Rustica is grown to some extent in Europe and Chim it does not figure in their export trade. It is very important to observe the fact that the world's interactional trade as a whole consists of N Tabacum and not of N Rustica.

Official production estimates make no distinction between the two main species and are also misleading in regard to yield. The average annual yield per acts of law tobacco in India is officially estimated at 1179 lb in the five years ending 1931-32, as against 1565 lb per acts in the previous five years. These figures might be

taken to indicate that yields are falling off whereas the real explanation probably is that provinces and States are trying to correct, gradually, the errors in the original basis of the estimates In Bombay Presi dency, for example, the standard yield is based on a formula devised in 1884, and the estimated yield per acre at that time probably referred to the crop as cut green It would appear from enquiries made in the course of the marketing survey that the official estimates for the Presidency are more than three times the actual figures In Mysore on the other nand the actual production is more than double that industed by the official estimates In the Guntar distruct of Madras about two thirds of the area is now under Virginia types of tobacco which yield on an average about 750 lb of law leaf or about 400-000 lb of processed leaf per dere but the efficial standard yield for the district is still maintained at 1 000 lb per acre

The statistical position is somewhat complicated in so far as in certain parts, eg—the Linited Provinces the practice is to harvest stalks and stems along with the leaf. The average yield per acre—therefore—in this province is well over 2 000 lb—of which one third consists of stalks and stems.

Taking the count v as a whole it seems that it everage yield of iav cuied tobacco per acre for the six years ending 1935-36 was somewhere about 959 lb which included 18 per cent (173 lb) of stalks and stems. The iverage yield of cuied leaf alone is therefore about 786 lb per acre.

International trade in tobacco now largely consists of leaf of different types of the N Tabacum species Foi Indian statistics to be intelligible both in India and abroad, it is therefore essential to classify the tobacco area and production by species and types with a view to developing the internal as well as the external trade

As the method of curing determines to a large extent the quality and final use of the tobacco leaf, it is desirable to have complete information with regard to the quantities of the various types produced by the different methods of curing

The largest amount of the international trade consists of flue cured tobacco for which the demand is steadily increasing. The total production of this type in India, however, at present represents only 2 per cent of the total More than two thirds of all the tobacco is ground cured 1e, it is cut and allowed to lie in the field to be cured by the sun Another quarter of the produc tion is tack cured and about 5 per cent pit cured first step towards improving official statistics production should be estimated in respect of the two distinct species, N Rustica and V Tabacum and the latter should be sub divided into (a) Virginia and (b) Desi (or Natu), each of which should in turn be subdivided into (1) flue cured and (2) sun cured This would go a long way towards clearing up the present obscurity

India produces about one fourth of the tobacco in the world and vet continues to import considerable quantities—particularly of unmanufactured from the United States-and the quantity has been in creasing There is, however, a certain amount of satis faction to be found in the fact that imports of cigarettes have shown a more than corresponding decrease ports of cigars have also fallen off considerably but un fortunately the exports of cigars from India and particularly from Burma have shown an enormous drop and now represent only about 04 per cent of the total quantity of manufactured and unmanufactured tobacco exported It is gratifying to observe that exports unmanufactured tobacco in recent years have particularly to the United Kingdom and Japan increase in the exports of Virginia flue cured tobacco to the United Kingdom during the past four years is particularly striking. In 1934-35 these exports amount ed to 93 million pounds and the figure was more than doubled in 1937-38. This is an indication of the growing popularity of the good quality flue cured Virginia tobacco produced in India.

CHAPTER II -UTILISATION AND DEMAND

A -Quantitative demand

(1) Unmanufactured tobacco

Tobacco is mostly consumed in the country in the form of manufactured tobacco products namely eigarettes eigars cherosit bids hookah and chewing tobacco and smuff. The quantity consumed in ummanufactured form is extremely small being confined entirely to hookah and chewing tobaccos. Ummanufactured tobacco is therefore almost entirely demanded by manufacturers whose sources of supply are the local production and the imports. Taking into eightput are the local production within the country imports and exports the net available supplies of unmanufactured tobacco in India are in licit did in the following statement.

Annual ret i milable supplies of unmanufactured tobacco in India
(William 1b.)

	1932 33	1933 34	1934 3 ₅	1935 36	1936 37	Average
Gross production in preceding year	1 272	1 306	1 154	1 429	1 346	1 301
Peduct 20° on account of driage damage and wastage in manufac ture	254	°C1	231	286	269	260
	1 018	1 045	923	1110		1,041
477		i	723	1 143	1 077	1,021
Add imports by sea*	13	'3	8	6	9	10
Add imports by land	11	8	6	10	8	9
Deduct exports by sea*	36	42	39	42	44	41
Deduct exports by land	9	9	9	10	9	9
Vet supplies available for manufacture and consumption	997	1 015	889	1 107	1,041	1 010

The annual average demand for unmanufactured tobacco in India may therefore be taken at 1010 million lb after allowing 20

^{*}Include coastal imports and exports

per cent on account of loss of moisture, damage and waste in manufacture

Similar figures for Burma given below show that the approximate average annual demand for unmanufactured tobacco from the Burmese manufacturers comes to about 86 million lb

Annual net available supplies of unmanufactured tobacco in Burma

(Million lb.)

	1932 33	1933 34	1934-35	1935-36	1936-37	Average
Gross production in preceding year	87	87	101	101	103	96
Deduct 20% on account of driage damage and wastage in manufac ture	17	17	20	20	21	19
	"0	70	81	81	82	77
Add imports by sea*	15	13	13	14	16	14
Add imports by land†			}			
Deduct exports by sea*	5	8	4	3	4	5
Deduct exports by land						
Yet available supplies for manufacture and con sumption	so	75	90	92	94	86

(2) TOBACCO PRODUCTS

(a) All tobacco products—Estimates of consumption of the different tobacco products in the various Indian provinces and

^{*}Include coastal imports and exports

[†]About 02 million lb on an average

States and Burma as based on enquiries made in 1934 35 are given in Appendix XXVIII and illustrated in the diagram facing this page. The figures given in the appendix show that the total consumptive demand for all manufactured tobacco products comes to 10163 million lb or 2915 lb per capita in India and 369 million lb or 638 lb per capita in burma

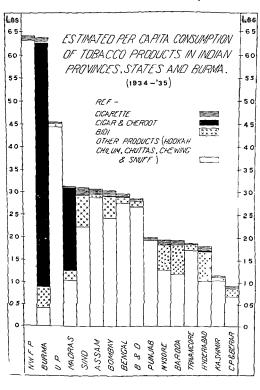
It may be stated that as given in Appendix XXVI the net available supply in India of all tobaccos (manufactured and unmanu tactured) in 1034 35 was 889 1 million lb as against 1016 3 million lb as arrived at in App nd x XAVIII The difference may be accounted for by the portion appropriated from the previous years curry overs necessitated by the low production in 1933 34 The difference in the figures for Buima as given in Appendices XXVII and XXVIII may also be accounted by the year to year variation in the size of the crop. For similar reasons differences are observed between the figures of consumption for India and Burma as given in Appendix XXVIII and those dealt with in the previous section on the quantitative demand for unmanufactured tobacco. Thus while the consumption of manufactured tobacco in India in 1934 35 was 1 016 3 million lb tl c quant tv of unman afactured tobacco available tor manufacture in the same year was only 889 million lb, the difference being accounted for by the carry overs from the previous years due to the smaller size of the crop in the country in 1933 34

It may be interesting to compare the per capita consumption figures for India (291 lb) and Burma (638 lb) with those of the some of the important tobacco consuming countries of the world like the Netherlands (78 lb) USA (61b) UK (332 lb) Germany (324 lb) and France (29 lb) The figures available and given for these foreign countries are for 1932 but they show that the per capita consumption in India is not large and that the figure for Burma compares favourably with that of some of the biggest tobacco producing countries of the world. Tobacco smoking in Burna is more general than in several other countries of the world and it is estimated that at least four fifths of the Burnae's population men women and even children use tobacco in one form or another.

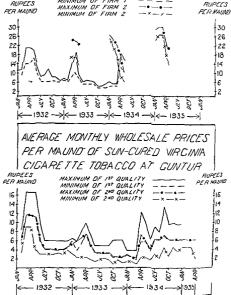
(b) Cognettes—(garette smoking is becoming more and more the fashion of the day and as such the trend of consumption of cigarettes is on the use—A major portion of the demand in India is met by eigarettes manufactured within the country and the imports are reast dynding.

In Burma almost the whole of the demand for engarettes is satisfied by imports mostly from India

The following statement shows the quantity of eigarettes consumed in the different Indian provinces and States and Burma in



AVERAGE MONTHLY WHOLESALE PRICES PER MAUND OF FLUE-CURED VIRGINIA CIGARETTE TOBACCO AT GUNTUR MINIMUM OF FIRM 1 RUPLES MINIMUM OF FIRM 1 RUPLES MINIMUM OF FIRM 1



Estimated consumption of eigeneties in the proxinces and States of India and in Burma in 1931 35

Province or Stat	Total consumption	Per capita		
	lb	lb	Nos	
	1 129 796	0 12a	44	
mess	2 741 506	0 0.4	19	
ien•al	1 640 000	0 042	15	
Sibar and Orissa	2 214 000	0 118	41	
3 radance	701 674	0 014	15	
Central Provinces	1 372 434	0 028	10	
Madras	205 999	0 083	29	
NWFP	1 429 347	0 058	20	
Punjab	639 302	0 155	54	
Sind	1 466 816	0.029	10	
United Provinces	281 834	0 111	39	
Baroda Nizam s Dominions	1 312 000	0.05	30	
	164 900	0 044	15	
Kashmir Mysoro	718 484	0 107	37	
Travancore	50 020	0 009	26	
Other areas	3 957 150	0 075	1 20	
Total India	20 016 358	0 0.7	20	
Burma	1 731 840	0 127	44	

Nore.-The outsits slown is in terms of the t bacco contents

The per capita consumption in India thus works out at 20 eigarettes It is highest in Sind at 54 though for the cheaper brands mostly Assam comes next with as large a demand as 44 demand for high grade eigarettes is highest in the sadar Sub division of Lakhimpur in issum presumably because of the comparatively large European population Bombay consumes large quantities of cigarettes and her per capite consumption work out at 41 is an extensive demand in the province for packets of ten cigarettes sold at one an a per packet or two cigarettes per pic in retail. The per capita demand for cigare tes in the North West Frontier Protince is estimated at 20 munt of the cheap brands. In the Punjab, a large section of its people are probabited the use of tobacco in any form by the tenets of Si hisr Sil his constitute about 13 per cent of the population of the province and this appears to be the main reason why the consumption of tobacco pic lacts there is so low as compared with the neighbouring provinces of Sind the North West Front or Province or the United Provinces, as would be seen later The eigarette however being in fashion appears comparatively un affected and to have a fair number of consumers Of the total eigarette smoking population about two thirds smoke low quality. a fourth medium quality and remainder high quality cigarettes consumption in Bihar and Orissa and Central Provinces is about the same, being 15 eigarettes per capita. It is estimated that only about 2 per cent of the smoking population in the Central Provinces and Beror smoke cicarettes. In Madras and the United Provinces the demand for cirarettes is distributed all over the province and the rate per head is about 10 eigerettes.

Among the States Baroda consumes large quantities of cirarettes and the demand is met mamly by the cirarettes imported from outside the State. There is a cirarette factory in Baroda but a very large portion of the eigeneties manufactured in it are consumed out die the State. In Mys.re most of the eigeneties smoked are of low grades. The entire demand in the State with the exception of a small quantity of imported eigeneties is, for the Indian product. The consumption of logarities in the Viram's Dominions is fairly large being about 30 cirarettes per capita.

Burna is a heavy consumer of tobacco product, and her consumption of closestles falls in line with her reputation as such.

(c) Cigars and cheroots—The following statement gives the quantitative demand for cerars and cheroots in the important consuming provinces and states of India and in Burma in 1934-35—

Estimated consumption of cigars and cheroots in India and Burma in 1934-35

Province or State	Quantity consumed.	Consu per es	
	lb	lb	105
Benral	993 760	0.020	4
Bihar and Orissa	5 a25	•	
Bombay	325 000	0 014	3
Central Provinces and Berar	60.270	0.004	1
Madras	89 631 9~6	1 861	3-2
\ W F P	1 18 040	0.007	2
Punjab	20,418	0 001	*
Smd	60,024	0 014	3
United Provinces	51,250	0.001	
Vizam s Dominions	410 000	0 027	5
Mysore	56 334	0.008	2
Travancore	29 520	0 005	1
Other areas	816 768	0 012	3
Total India	92 459 595	0 265	53
Burms	73 062 000	5 370 1	547

North-The weight of the tobacco is in terms of net weight

*Negligible

Madras ranks first and is outstanding among the provinces of India as recards the conjumption of eigens and cheroots the annual processing the consumption being estimated at 372. In the Greats, especially in the Vi agaputam and Godatam districts of the Presidence the new of cheroots. Is almost universal among the simble population. The annual consumption in Bengal works out at 4 class and cheroots per capita. Vi am's Dominions is the only State where there is any appreciable consumption of cirass and

cheroots In other provinces and States the demand for cigars and cheroots is extremely small

- In Burma the consumption of cheroots is almost universal among the adult population and even children. There are two hinds of the crosts in use. One is the ordinary hind of cheroot or Hise byin leik wrapped in tobacco leaf, and the other is the torch cheroot or Hise-bur-leik made with a mutture of chopped tobacco stalk and shredded leaf as filler, and the sheath of the maize cob or the prepared leaf of "Thanat bin" (Cordia Spp) or the sheath which envelops the leaf base of the "Kun bin" (areca nut tree), as the wrapper
- (d) Pipe and cut tobacco—The demand for this type of manu inactured tobacco is concentrated in big cities and comes mainly from the European and Anglo Indian population. The quantity con sumed in India in 1934 35 is estimated at the extremely small quantity of 517 830 bi. In Bombay the annual consumption of pipe and cut tobaccos is about 246,000 lb which works out at 0013 lb per capita. The total demand in Bengal is 139,310 lb and the per capita comes to about 0 003 lb. In the other provinces and Indian States the demand is extremely small. In Burnar the consumption of pipe and cut tobacco is negligible and is estimated at 11,480 lb. in 1934 35.
- (e) Bids—The bidi is the poor man's cigarette. The statement given below shows the estimated consumption of bidis in the provinces and States of India and Burma in 1934 35.

Estimated consumption of bidis in India and Burma

Province or State	Total Quantity	Per capits		
	lb	16	Nos	
Assam	560,880	0 062	62	
Bengal	6,796,980	0 133	133	
Bihar and Orissa	4 895,400	0 126	126	
Bombay	8 919,140	0 477	477	
Central Provinces and Berar	2,870,000	0 179	179	
Madras	10,295,100	0 218	218	
YWFP	3,075	0 001	1	
Panjab	127,797	0 005		
Sind	2,804,400	0 687	687	
United Provinces	3,424 512	0 070	70	
Baroda	1,679,483	0 660	660	
Nizam's Dominions	10,004,000	0 664	664	
Kashmir	254,692	0 068	68	
Mysore	3,852,811	0 572	572	
Travancore	750,300	0 137	137	
Other areas	11,449,354	0 217	217	
Total India .	. 68,687,924	0 197	197	
Burma	6,479,968	0 476	476	

NOTE —Only the tobacco contained in the bidis has been taken into account in the statement. The weight of the wrapper leaf is excluded LHCAR

The per capita consumption of bidis in India works out at 197 Sind ranks first among the provinces as regards the annual consumption of bidis Bombay comes next in rank and the importance of the province as a consumer of bidis is in keeping with the fact that it is the most important area for the cultivation of bidi tobaceo which is despatched to all parts of the country Wadras has a per capita consumption of 215 bidis Central Provinces and Berar have the most important bids manufacturing centres in the country but the per capita consumption comes to only 179 bidis Bengal and Bihar and Orissa come next with 133 and 126 bidis per capita In the United Proxinces there is only a small demand for bidis This is not surprising in view of the fact that the people of the pro vince are mainly hookah smokers. In the Punjab and Assam also the demand for bidis is small The consumption of bidis in the North West Frontier Province is extremely small and the consum; tion is mainly confined to Indian troops who are recruited from the bidi smoking areas and the servant class in the towns It is doubtful whether the bids would ever appeal to the sturdy Pathan

The demand for bidis in the Nizam's Dominions appears to be the largest among the Indian States. In Baroda the annual con sumption stands at the high figure of 660 bidis per capita. In Mysore also there is a large demand for bidis.

On the whole it appears that the bids is a popular smoke in western and southern parts of the country. Of the two cheap smokes the bid and the hookah the latter is more popular in the north where the bids occupies but a place of minor importance

In Burma the consumption is large and works out at 476 bids per capita

(f) Other tobacco products—The estimated demand for manufactured hookah and chewing tobaccos and snuff is shown below -

Province or State	Total Quantity	Per capita consumption
	lb	16
Assam	26 256 892	2 9
Bengal	142 195 314	و و
Bihar and Orissa	105 828 796	2 7
Bombay	46 257 020	2 5
Central Provinces and Berar	11 344 290	0.7
Madras	50 242 876	10
	1	

) ruvince or State	Total Quant ty	Per capita consumption
	l lb	lb.
9 4 11 /	15 %3 312	6 3
Linjab	48 412 718	20
5 nd	9 268 378	2 3
Un ted Prov 1	219 021 969	4 1
Baroda	3 068 358	1 2
\uzam s Dominions	15 924 0~9	11
Kashmir	3 993 9"4	11
Mysore	8 ~0a 530	1 3
Travancore	951~8	18
Other areas ,	118 714 500	2 3
Total India	835 069 130	2 4
Burma	5 579 289]	0 4

Nore.-Only the tobacco content has been taken into account

The per capita consumption in the borth West Frontier Protince is very high and largely consists of hoolah tobacco Hoolah smoking is almost universal amongst the smoking population of the province and more especially in the rural areas A hookah is considered as an essential requisite of the village Hujra (meeting place) and small fancy bags containing supplies of tobacco for the purpose are carried by most of the smart looking villagers. The use of snuff also is popular among the people

In the United Provinces an important centre for hookah tobacco manufacture the consumption is heavy and works out at 4.4 lb per capita. The major portion of the demand is for hookah tobacco although there is considerable demand for chewing tobacco as well

In Assam the demand is more for hookah tobacco. Hookah smoking is prevalent in all the districts in the plains and to a smaller extent in the hilly regions. The demand for chewing tobacco is greater in the Upper Assam valley than in the Lower Assam and Surma valleys and comes mainly from the rural population and cooles in the tea gardens. The consumption of chewing tobacco to the cooles in the tea gardens.

made from Jati tobacco is confined chiefly to the districts in the

In Bengal these tobacco products find more favour with the rural population Bengal consumer mainly hoolah tobacco and her demand for chewing tobacco and surfly small. In Bihar and Oriss large quantities of both hookah and chewing tobaccos are consumed the demand for hoolah tobacco in Bombay is negligible. Chewing tobacco is however in demand practically all over the presidency The consumption of smill is generally confined to old people. In the Punjab local troates in demind for the manufacture of hookah tobacco and the imported tobacco is used to impair strength to it.

Walri, consumes only a negligible quantity of hookah tobacco. The d mand is mainly for pit cured Meenampalayam chewing tobacco and it e chief consuming districts are Madura Madras Tanjore Malabar Trichinopoly Vellore North Arcot and South Arcot. The consumption of ordinari, chewing tobacco is concentrated at Madura Trichinopoly Tinnevells Nellore and Ganjam districts and that for scented chewing tobacco at Madras North Arcot and Chinglepst districts. South Ranara satisfies her demand for chewing tobacco from local production. Madras snuff is enough to meet the entire demand of the Southern districts and the requirements of the West Cast are met by Mangalore snuff. Snuff has made practically no entry into the Circar, where the geople prefer cigars and cheroots

In Mysore and Trainscore States the consumption under that head comprises mainly of clewing tobacco. In Mysore the habt of chewing tobacco in the form of buts or powder is fairly common in Trainscore the demand for Tinnevelly chewing tobacco. In Trainscore the demand for Tinnevelly chewing tobacco in States on Toyala Agestesswaran Shenkotta and Devicolam areas. Of the two kinds of Combatore chewing tobacco. Thallaykettu and haddul ettu, the latter is more expensive than the other and hence its consumption is restricted. In the whole of Trainscore State there is a special liking for Jaffas tobacco for chewing purposes and large quantities are imported annually from Ceylon as already noted earlier in Chapter I.

Burma consumes considerable quantities of chewing tobacco. The local demand for hookah tobacco and snuff is extremely neglicable.

B-Qualitative demand

(1) UNMANUFACTURED TOBACCO

The quality characteristics of the principal commercial types of tobacco have already been described in the previous chapter. The may however be summarised at this place. In the case of flue curely riginal eigenetie tobacco a leaf with bright lemon colour and the silky texture with the least amount of blemish and damages is given preference to others. The most desirable qualities in sun cure preference to others. The most desirable qualities in sun cure blemishes and those of sun cured Natu (country) tobacco are bright colour good texture and absence of blemishes and those of sun cured Natu (country) tobacco are bright colour good texture and body and lack of blemishes on the leaf The flavour in all these types should be pleasing and neutral or free from pungency and objectionable—q. q. carthy—or unusual aroms-

The buvers of cigarette tobacco are the manufacturers and the exporters from the Guntur District. The principal cigarette factories are located in Bombay Sukkur Jullindur Allakabrd. Calcutta Sabaranpur Monghyr and Bangrlore The cigarette factories at the last three pluces below to the Tobacco Manufacturers (India) Ltd who specialise in the manufacturer of medium and high grade cigarette. There are also cigarette factories at Hiderabrd (Decean) and Berwada Excepting the factories belonging to the Tobacco Manufacturers (India) Ltd and the Cigarette Manufacturers (India) Ltd and the Cigarette Manufacturers demand leaf of mediocre and low grades. The demand for imported cigarette leaf and for high class Indian eigenrette tobacco is almost entirely confined to the factories located in Culcutta and those belonging to the Tobacco Manufacturers (India) Ltd.

In the manufacture of eight, there is a greater deman't for leaf with uniform bown colour and without any greenish tinge good and continuous burn strong and agreerible flavour good size and pleasant aroma. After burning the leaf should leave behind white ash. A combination type of leaf which will serve as a wrapper binder and filler is given preference. The leaf used as filler and binder has colour varying from light vellow to light brown. It is mild in flavour thin in texture and light in weight. Leaf with light golden colour tending towards light brown. It's texture gloss and listious surfaces leaving white ash after burning is the one used as wrapper in superior cigars. The demand for imported and local cigar tobacco is from manufacturers of eights from plaufigul Trichinopoly and Madraka and inthe case of Burning from Pangoon Mandiaka and other small manufacturing centres.

In the manufacture of cheroots the purchase of the leaf is made generally on considerations of colour size texture strength and aroma. A leaf with uniform light brown colour is preferred. In Guntur and Godavari di tricts of Vadirys the local I naka toba on is used both as wrapper and filter the larger sized leaves, with dais colour being preferred for wrapper and those with high colour for filter. The Lankas tobacco is also in demand in Vadiras Trichinopoliv and Timewelly districts for the manufacture of cheroots. On the west coast in Cannanore large leaves of Bhavani tobacco with thin texture are in demand for wrapper and Victiopalayam tobacco with thin texture are in demand for wrapper and Victiopalayam tobacco which is stronger than the former i u ed as filter.

The chief types of bidi tobacco in demand all over the country of the fujerati and Vipani bidi tobaccos. On account of its larger production Gujerati tobacco is considered stronger than tujerati than Vipani. The Vipani tobacco is considered stronger than tujerati and these two varieties are mixed together in different proportions to mainfacture bidis of varying strength. Local produce is also in demand for bidis to a certain extent in some areas, 2 in Hyderabad and Visore Occasionally the locally produced tobaccos as for instance Calcultia variety grown in the United Provinces and the Punjad or bidi tobacco grown in Mysore and Hyderabad are mixed

with Gujerati and Nipam tobacco to manufacture bids of lower quality. The Nipam and Gujerati tobaccos comprise of strong and thick leaves broken into small pieces. Gujerati tobacco has a light orange yellow colour rather more greemsh while the colour of Nipam is brownish red with a slight greemsh tinge. The powder of good quality bids tobacco contains the least quantity of stalks and Stems Reddish coloured bids tobacco is preferred in Sind Rujputana the Central Provinces Calcutta and Rangoon Bid powder with reddish yellow colour of greemsh tinge is preferred in the Bombay Presidency and Kathiawar. Since Aipam is considered to be stronger in flavour than Gujerati it has a very large demand from manufacturers in Northern India particularly from Delhi the United Provinces and Beneal.

The chief varieties of kookah tobacco in demand are Calcuttu Kampilla Desi Kandhari Gobhi and Utithari A broad coarse and thick leaf with thin veins and match strong favour slow continuous burn and brown earth; colour is preferred for hookah matu facture. Different varieties and qualities of leaf ir e mixed togetle in different proportions to give stringth and body to the munifacturer product and each manufacturer, pecialises in his own particular blend. The principal hookah manufacturing centres where hookah tobacco is largely in demnd are Peshawr Lahore Delhi Lucle now Cawnpore Allahabad Benares Gaya Calcutta Dacca and Hyder abad (Decean)

In the case of chewing tobacco the principal quality considerations are the body and thickness of the leaf colour strength and freedom from drimage and disease. A thick leaf with uniform body good absorbing capicity reddish brown colour and medium strength and a biting taste is considered best for chewing purposes. In manufacturing 11 different qualities are blended in certain proportions to get the desired strength body and taste. High quality chewing tobaccos are in demand from manufacturers in big cities like Delhi Benires Lindinow Madras etc.

The general quality factor of good snuff tobacco are that it should be a strong tobacco with bright vellow colour thick texture besides being brittle so that it can be reduced easily to fine powder Superior quality snuff tobacco are in demand from the manufacturer. In Madras and Mangalore in the Madras Presidency Peshawar in the North West Frontier Province and Harro in the Puniah.

(2) Tobacco Products

There are three classes of eigereties sold in India and Burms high medium and low grades. Cigarettes may be further classified according to strength of flavour into mild medium and full (strong). High class eigerreties contain tobacco of bright golden pellow colour the cuts consisting of pure leaf and no stems. The medium grade eigereties contain tobacco of bright golden colour with a small per centage of tobacco of lower quality and the cuts contain small put intince of stems. It sharour is considered stronger than that

of the high grades of medium flavour. In the low grade eigarettes the tobacco is darker in colour and lower in quility, the flavour being stronger than the medium grade eigarettes. There are numerous blands of eigarettes in the market and each braid has its own devotees. Usually the poorer classes of mokers go in for cheapbrands and the middle and the weilth classes in towns and cities purcha e superior cigarettes. Rughli 10 per cent of the cigarettes sold in India consist or the cheap brands more than 20 per cent medium and the rest high grades. In the rural areas the cigarettes consumed are entirely low grade the demand for medium and high grades being concentrated in towns and cities. The imported cigarettes comprise of high and medium grades and are almost entirely demanded in the urbin areas.

Cigars of different quality are consumed mo it by the wealthy classes and generally looked upon as a luxury. The quality of a cigary depends upon the quality of the tobucco used as filler bunder and wrapper. The mild type of cigar only is generally preferred and the stronger ones are relegated to the cheroot class. The cheroot is much cheaper than the civar and the demand for it is considerably larger. The consumption of cheroot is very largely confined to the Madras. Presidency the Nizam's Dominions and Burma. In the Madras Presidency the districts on the East Coast generally demand stronger types of cheroots than those on the West Coast.

In the case of bidis cheapness and popularity of the brand (due generally to advertisement) are the important factors account ing for large sales by certain factories. A bids of medium size and strength and containing as large an amount of tobacco a possibl is generally preferred. The colour of the wrapper leaf gives attractiveness and one with bright vellowish colour is very much liked by consumer. The qualitative demand for bidis is found to vary from one truct to another Thus in Bombay Sholapur is credited with the demand for stronger bidis made of strong and almost a black coloured tobacco. The demand for such bidis comes particularly from the textile mill workers of the city. In other areas of the Bombay Presidency however bidis made of tobacco with mild flavour and good finish are in demand. In Raiputana the United Provinces and Bengal bidis of stronger flavour are generally preferred In the Central Provinces and Sind there is greater demand for medium flavoured bidis Medium and large sized bidis with strong flavour are generally preferred by the work ing classes while small sized bidis with mild flavour are preferred by educated lower and upper middle class people

The quality of the manufactured hookal tobacco varies from place to place in accordance with the methods of preparation and the kind and proportion of the ingredients used. There are two chief qualities of hookak tobacco namely Karwa (strong and puneent) which is considered to be of superior quality and the other Ghotia or Utiha or Sada (mild). The first is a strong smoke whereas the other a mild one as their names imply. Some people however prefer tobacco of medium strength and for them Karwa type and

Mitha tobaccos are blended in different proportions. While the Karuc type of tobacco is in general demand in the rural areas (of the United Provinces the Pumjab the North West Frontier Province Western Rapputana States and Sind) the middle classes in these provinces and States use either the Utiha or the insturer. The southern and eastern parts of the country seem to prefer the mild type generally.

In the case of chewing tobacco also the quality demanded varies form one place to another. Manufactured chewing tobacco is seld in three forms powder pulls and paste (Zarda or Surit Gols and Quiam). The powder may be fine or coarse (Danedar or Patti) and ether black or brown (Kada or Pill). The qualitative differences are based on the quantity and number of spices and scents used Some wealthy people demand scented and flavoured preparations even with some tome ingredients. There is a belief in the United Provinces and Delhi that some of the chewing tobacco currence of chewing tobacco.

The quality of soulf depends on the method of preparation and blending In Madras three lands of suuff are demanded by the people namely dark coloured brown and scented Some people prefer to take a mixture of brown and scented suuff. In the Peshaw ir mariet there are two qualities of smiff the first made from top leaves and the second from middle and bottom leaves of the tobacco plant. In this case also a nuxture of the two is occasionally demanded.

C -Seasonal variations in demand

(1) Unmanufactured tobacco

(a) I total—Broadli, speaking the demand for the summarial patchried tobeca; is maxim in soon after the harvest. The merchants and manufacturer who have fairly good storing accommodation prefer to purchase their stocks at this time and generally go to the spot to do so in order to be sure of quality. The growers also like to sell tobacc in the post harvest period itself isnee the prices of tobacco do not improve on storing particularly in the case of eigarette and eigar leaf and better quality cheroot and chewing tobaccos and as the quality of these types deteriorates in the absence of adequate storing facilities. The fear of ranse constitutes an additional reason for the purchase or disposal of the produce as early as possible.

Tobacco growers are more fortunate than producers of most agreement and the products in that the demand from processors and manu facturers is at its peak when supplies are greatest. The demand and supply curves follow the same general course and the following figures of monthly total volume of traffic in unmanufactured tobacco by rul aid tiver indicate roughly the seasonal variations

Average monthly rolume of traffic in unmanufactured tobacco by rail and river in India

1411	Me Trees the annual	
Month		Quantity
		(Thousand maund
April		382
Mav		451
June		387
July		290
August		232
September		203
October		231
`\ovember		204
December		185
January		171
February		210
March		284
	Total	3 230

It is seen that about 50 per cent of the unmanufactured tobacco-entering the inter-provincial trade is moved during the five months. March to July. The movement of traffic falls in August and September but in October there is a small recover due mainly to the exessition of autumn and commencement of cold weather. There is a earn a fall from November to January with January as the month of smallest rail and river traffic in unmanufactured to bacco. It may be stated, however that this monthly movement of traffic does not indicate the consumers demand for manufacture tobacco but rather the demand of manufacturers who prefer to buy before the quality deteriorates and when the stocks are high in the market While the consumers demand for manufactured tobacco products is slightly higher during the winter months the manufacturers demand for unmanufacturer to the manufacturers demand for unmanufacturer to the manufacturers demand for unmanufacturer to the manufacturers of the demand from manufacturers commences to rise in February when supplies of fre h crop begin to arrive in the market and is at its maximum somewhere about the month of Mar

(b) Cigarette tobacco—There are two sources of unmanu factured eigarette tobacco etz imports and local production. As already discussed in the supply chapter January and February are the months of high imports of unmanufactured tobacco from abroad and together account for about 29 per cent of the average annual imports. March. April June and December are months of low imports while imports during fully to September are fairly high and account for 26 per cent of the total. The local supply of

eigarette leaf comes almost entirely from the Guntur area where almost all the supply available with growers is sold off from January to Marth in the case of Virginia variety and from April to June in the case of Virginia variety on account of the high demand prevailing during these periods from the manufacturers and exporters. As already noted in the previous chapter large quantities of sun cured Vofu (country) curarett leaf are exported to Japan and as exports to Japan are made on orders which are received by exporters. Some time in September the demand for this type of tobacco ries a saim during. September to November in years of heavy orders. The small quantities of Vinginia leaf produced in the United Provinces and My ore are sold off immediately after harvest, i.e., during September to November to January respectively. The demand for locally grown cigarette tobacco on the part of manufacturers, and exporters is thus at its maximum during the pre harvest period.

Comparing these seasonal variations in demand with those of prices descissed in the next chapter it will be noticed that the prices of important types eg Lanka in Godaran district of Madres and Iats of Rangpur in Bengal are low during the months and commence to rise after about four to six months. This times in press in any less stated is in no way due to the rise in deniend on the part of merchants and manufacturers and is entirely on account of the fact that topacco improves in smoking quality after it is stored for some months under proper conditions which will be discussed later, in the chapter on storage and stocks.

(d) Bult tobacco—The demand for bult tobacco also is the highest during the months immediately after harvest. In the Charoliar area of the Bombas Presidency the demand on the part of manufacturers, merchants and exporters commences to rise by about the end of December when the earliest crop is offered for sale. By January the best qualities of the crop appear on the market and on account of the keen competition among the buyers to secure these qualities the prices also rule high. The maximum purchases by the buvers are made during Varich and April. By May the demand commences to decline and by the end of June the farmers in this area sell almost the whole of their crop. June to October is a period of low demand. There is a small improvement in demand from the end of October to the end of November followed by a decline in December.

In the Aipani area also the demand is at its maximum during the post harvest months. It commences to rise in January when the fresh crop begins to arrive in the market and is at its greatest during February and Vareb. Over four fifths of the tobacco is sold off during the period February to Vax. There is a slight improvement in the demand by about the end of October which continues till December.

In both the bidi tobacco producing areas the prices during October to December are at a higher level than those prevailing during post harvest months but these high prices are entirely due to the improvement in the smoking quality of tobacco on account of storage

(e) Other tobaccos - The demand for unmanufactured tobacco for hookah chewing and snuff purposes is also high soon after harve t when the manufacturers and merchants have opportunities to satisfy themselves as to the quality of the stuff they purchase In Bengal almost all the hookah and chewing tobaccos are sold from April to October the months of maximum sales being Way to July In Bihar the crop begins to arrive in the market from about the end of March when the demand from manufacturers and merchants commences to rise The maximum demand 1 from about the middle of May to the middle of June Over 80 per cent of the hookah and chewing tobaccos are sold off by the growers before the middle of June From July to September the demand continues at a low level It rises again in October to a small extent. In the Wadrus Presidency the manufacturers and merchants of chewing tobacco make the maximum purchases from March to July when about three fourths of the growers erop is sold off. In the Punjab the hookah manufacturers and merchants purchase about 80 to 90 per cent of their requirements of tobacco grown in the Punjab from June to Similar is the ease in the United Provinces and over three fourths of the eron is sold off to buvers from Way to August but the months of maximum demand in both the provinces appear to be June and July

(2) lobacco products

(a) Cigarettes—The monthly demand for cigarettes in India is more or less uniform throughout the year except during the winter months when it increases to a slight extent. The seasonality of demand for cigarettes may be indicated roughly by the figures given below of the approximate monthly outward traffic at three important distributing centres in the United Provinces. North Bihar and Mysore.

Approximate monthly outward traffic in cigarcities at three important centres of distribution in the U P, North Bihar and Mysore

Months	U P	North Bihar	Mysore
	(Thousand cigarettes)	(Maunds)	(Maunds)
January	98,000	700	11,000
February	112 000	500	9,000
March	135,000	500	
Aprıl	120 000		10,000
May		600	13,000
June	145,000	700	12,000
July	115,000	500	11,000
•	104,000	600	9,000
August	122,000	400	7,000
September	124,000	500	9,000
October	129,000	800	· ·
November	161 000		10,000
December	1 1	700	9,000
	144,000	600	11,000

The statement shows the eigarette distributors' demand, but it also seems to indicate that the general demand is slightly higher during the winter months. During the remaining period of the year, it appears that apart from slight month to month variation, the demand is fairly uniform

In Burma also the demand tends to be slightly higher during the winter months than in the remaining months of the year. The following figures of monthly coastal inward traffic in eigerettes in 1935-36 indicate roughly the seasonal variations as there is no local production of eigerettes in Burma.

reduction of eigalettes in Burma	as there is no loc
April	Quantity in thousan! Ib
May	162
June	147
July	178
August	139
September-	144
October	120
Novembr 1	173
December	130
	167

	Quantity in thousand lb.
January	185
February	195
March -	180

About 54 per cent of the inward coastal traffic in cigarettes thus concentrated during the winter months, October to March During the remaining periods fairly wide fluctuations are noticeable, the months of high demand generally alternating with those of low demand

(b) Cugars and Cheroots—It is reported that the demand for caps and cheroots in Madras and Bengal is greater during rains and winter months. In Sind the demand is high during winter. In Bihar and Orissa and the Punjab the demand appears to be more riess uniform throughout the vear. In Assam the demand is reported to decline during the rainy season. In Coorg there are two definite periods namely, April to June and December to January when the demand expands considerably the former because of the season for marriages and the latter on account of Christmas festivities.

The following approximate average monthly inward traffic of cigars and cheroots at a few centres indicates roughly the seasonal variations

Approximate monthly inward traffic in cigars and cheroots

(Lb)						
Months	Bangalore	Travancore	Cochin.			
January	6,700	2,500	300			
February	7,900	2,600	300			
March	5,300	2,200	500			
Aprıl	5,500	2,800	400			
May	5,300	2,100	200			
June	5,100	2 400	300			
July	6,500	3 300	200			
August	6,700	1,600	1,200			
September	7,000	2 700	200			
October	4,800	3,100	500			
November	6,400	2,700	300			
December	4,400	2,800	500			

The figures relating to Bangalore represent about 60 per cent. ct the demand in the State. The Travancere and Cochin figures represent the entire demand within these States. But the figures for all the three centres do not reveal any definite periodienty showing as they do wide fluctuations from month to month. However, they seem to indicate a general tendency for the demand to increase though only to a very slight extent during the winter months. The demand at other times, is more or less stead.

The consumption of cheroots in Burma is reported to be steady throughout the year except for a slight tendency to increase during winter and months of heavy rainfall

(c) Bidis—The following figures of approximate average monthly outward traffile in bidis from important centres of man facture in the Central Provinces which supply bidis to all over India and even Barma \saik Road (Bombay) and Jhansi (U P) show in a general manner the periodicity of demand on the part of distributors;

(In mannds)

Months	СР	\asik Road	Jhansı
Janua ry	2 500	500	60
February	2 600	600	110
March	2 200	400	120
Aprıl	2 800	500	70
May	2 400	500	50
June	2 400	600	130
July	2 100	900	110
August	2 000	400	70
September	3 100	600	80
October	3 100	300	130
November	2,300	1 300	100
December	2 900	~on {	130

Although the figures do not exhibit clearly marked seasonal articles and fairly steady during the renaming months of the year. There are however some territorial variations in the seasonality of demand I assum the demand declines comparatively

during the rains. In Coorg the demand for bidis is high from April to June and in December and January

Among he Indian States in the Vizan's Dominions the demand is greatest in November to February. In Uysore the demand appears to be slightly higher during the monsoon months namely May to September. In Trainnore and Cochin no marked variation is reported except at the time of festivals.

(d) Other tobacco products—The main areas using manutace turned hookah tobacco are the N W F P Punjab, U P and Bengal Large quantities are also used in Buhar and Central India From enquiries made at appears that the demand is generally high during the winter months and seasons of religious and social festivals. During the other times of the year the demand is fairly steady from mouth to month. In the rural areas the demand slightly rises during the post barvest months when the cultivator has eash to spend on smoke and other recreations. In other areas in the south hookah smoking is not so common and a very large section of the hookah smoking population is the Vuslim. In these areas demand is fairly regular from month to month except during the religious or social festivals.

In the case of chewing tobacco the demand does not exhibit any definite seasonality as can be seen from the following figures of average outward traffic in manufactured chewing tobacco from Benares which is famous for the manufacture of chewing tobacco all over vorthern India

Average monthly outward traffic in manufactured cheming tobacco

from Benares	
Month	Maunds
January	55
February	43
March	49
April	52
Mav	51
June	42
July	44
August	43
September	47
October	45
November	48
December	39

In Southern India where there is a large consumption of cher ing tobacco small month to month variation is observed during periods of religious and social festivals and harvest seasons. Thus in Goory the demand rises during the period June to September its being a busy season for farm labour to work in the paddy fields. There is again a rise in demand in December and January when paddy is hirvested in Transancore the demand rises in April and October on account of local festivals and again in December from the Christ an people of the Stite. In Uysore the demand is reported to be slightly high from March to June but on the whole appears to be fairly even throughout the year.

The demand for snuff appears to be fairly steady from month to month though here again a tendency towards increase is notice able during winter months particularly from November to February During months of heavy rainfall July and August the demand is reported to be slightly smaller

D-Trend of demand

(1) Unmanufactured tobacco

No statistical data regarding the consumption of unmanufactured tobacco in India and Burm are available but it appears from enquiries that the general demand is slowly on the tisse more particularly for the Virginian type of cigarette tobacco. This is supported by the statement showing the net available supplies of all types of tobacco in India (Appendix XXVI) from which it is seen that the per caj ta net supply since 1931 32 has been slightly on the increase except in 1934 35 and 11938 37 when there was a slight furfact tobacco is seen more clearly in the case of Burma where there been an increased lemand every year except in 1932 33 and 1933 34 (See Appendix XXVII)

(2) TOBACCO PRODUCTS

(a) Cugarettes —The annual consumption of cigarettes in India and Burnan in 1934 35 is estimated at more than 7 fool million cigarettes as compared with the annual estimated figure of about 6 500 millions in the beginning of 1929 and under 1060 millions before the War. The agerette habit seems to be growing in every country of the world live for factors appear to be primarily responsible for the expansion of the demand in India namely the gradual adoption of western ways of living by the people and the introduction of cheap cigarettes in the market. The popularity of cheap brands has been simulated in the market within the country by European and Indian owned factories and a keen competition between foreign firms and smaller Indian manufacturers who are maling a strenuous effort to obtain a share of this growing market.

This increased consumption of cigarettes in India is in consonance with the general rise in the demand of cigarettes throughout

the world as seen from the following figures of consumption per capita in some of the important countries —

		Per capita in lb					
	1913	1920	1924	1929	1932		
USA	0 60	1 56	1 88	2 7-	2 32		
United Kingdom	0.71	1 49	1 73	2 26	2 33		
Germany	0 40	0 72	0 90	1 12	1 06		
France	0 22	0 31	0 57	0 86	0 9~		

Thus in the United Kingdom the per capita consumption of orgarettes in 1932 was more than three times the pre war figure and evidence shows that this increase continues. The greatest impetus to orgarette smoking was given during the last European War and within the last few years the increase in consumption has been largely due to women taking to the habit some of them being heavier smokers than men to-day. This increasing popularity is also due to the fact that orgarette smoking besides being in some ways cleaner is more convenient in so far as it has the advantage that a cigarette seasily taken and lasts for a shorter time.

In the Punjab the consumption of cigarettes is reported to be on the increase. It is estimated that the demand for medium and high grade eigerettes has decreased by about 25 per cent during the last 4 or 5 years but that it is more than compensated by the large increase in the consumption of cheaper brands of eigerettes. The popularity of cheap brands is attributed to the general economic depression the preponderance of low quality brands in the market and their cheapness. In the North West Frontier Province there appears to be an increasing consumption of eigerettes following the growing popularity of cheap brands of eigerettes. In Sind and the Central Provinces also the demand for eigerettes it is reported has been steady increasing during the past lew years. In Debth there was an increase of 64 per cent in the consumption of eigerettes during the five years 1930—34

In the Aram's Dominions a steady though small increase in the demand for eigarettes for the last few years is reported. Enquiries however show that this increase has been at the expense of bids consumption. Recent years have witnessed a decline in the demand for medium and high grade eigarettes and it has been more than compensated by the increased demand for low grade eigarettes.

(b) Cygars and cheroots—The cigar is a costly smoke and because of this and the long time it takes in smoking it does not find favour with the majority of smokers Besides it is stronger Lilican than a cigarette and hence does not appeal to the younger generation of smokers the demand at present being confined chiefly to the older generation. The others enjoy eight only as an occasional smoke. The following statement gives the per capita consumption of organs in a few important tobacco smoking countries of the

		Per capit	a consumpt	on un lb	
	1913	1920	1924	1929	1932
U S A United Kingdom Germany France	1 72 0 11 1 33 0 16	1 87 0 06 0 99 0 13	1 44 0 05 0 97 0 09	1 32 0 04 1 17 0 09	0 89 0 03 0 92 0 05

It is thus seen that the consumption of eigars in the important cigar consuming countries has been declining steadily. The chief factor contributing to the decline is the growing popularity of cigarette smoking among the people

We notice a striking fall in the consumption in the United Kingdom the chief consumer of our cigars. This is due to a change in the habit of the British smoking public that began before the War. It was however, accelerated by changed conditions duited and attest the War. The fall in the consumption continued executing the post War period although the rate of decrease sloved down considerably since 1932. This is evidenced by the figure relating to the consumption of cigars in the United Kingdom which is seen to the consumption of cigars in the United Kingdom which may be a followed by against 2,000 000 lb in 1934 and 5,000,000 lb in 1907. The manufacturers and merchants attribute this 15 heavy increase in the duties but in the main the changed smoking habit of the people seems to be responsible for such a phenomenal tall.

In India also the consumption of cigars and cheroots his decreased considerably during the last few years. Most of the egar factories in Vadras and Burma—the two important centres of manufacture of cigars—which were doing good business in cigars some years back now find it extremely difficult to run to their normal capacity. In Vadras the cigar industry which was employing during its prosperious period about 30 000 people, now hardly finds work for more than 10 000. Besides many of the factories which were working throughout the vear, now work on seasonal bisis or reduce their work during winter months. The industry last also suffered a serious set back in Burna during recent times.

(c) Bidis—The demand for bidis was on the increase until peculty because of the general increase in smoking habit of the people in India. But due to the introduction of cheap brands of grarettes into the market and the increasing demand for them, the consumption of bidis is slowly decluing throughout the country The manufacturers of bidis in the Central Provinces an important centre, confirm this view and seem to complain against the growing popularity of the eigarette Judged by the consumption in other countries the consumption of eigarettes in India is however, remark ably small being only 20 per head per year

(d) Others-With regard to other tobacco products the consensus of opinion favours the view that the general demand has

been slowly mereasing

E-External Demand

(1) EXPORT TRADE THROUGH LAND PRONTIER ROUTES

Exports through land frontier routes of India consist entirely of hookah and smoling tobacco. During the past 12 vears the export demand through the land frontier routes has ranged from 9 to 11 million lb per vear. Since 1932 33 this demand appears to be on the decline. The annual average exports for the 5 vears ending 1934 55 were 97 million lb as compared with 103 million lb during the quinquennum ending 1929 30. The principal destinations of exports through the land frontier routes are Iraq Afghanistan Central Asia Turkstan Tubet Vepal and Blutan.

Almost the whole of the land fronter trade in Burma is with suam and China The annual average exports during the quinquennum ending 1934 35 were 164 000 ib as compared with 372 000 ib during the jears ending 1929 30 From 1935 36 however, there has been an improvement and in 1936 37 the Burmese land frontier exports were 470 000 it. All these exports consist of the Burme e theroot tobacco

(2) Exports by SEA

About 97 per cent of the unual average exports by sea from India and Burma consist of unmanufactured tobacco. The important destinations are the U.K. Japan Aden and Dependencies and Vetherlands. The exports of tobacco products comprise eigars capacities and bids to a smaller extent. The chief maskets tor eigars are the U.K. tevion Straits Settlements and Aden and those for eigarettes and bids are (evion Pederated Valay States and Straits Settlements). Of the average annual exports of unmanufactured tobacco the U.K. takes 40 per cent the other buvers in the order of importance being Aden and Dependencies. Japan and Netherlands. These 4 countries together take about 83 per cent of the average annual exports of unmanufactured tobacco.

(a) Aden and Dependencies—Indian tobacco is allowed free model and its exports from India to Aden and Dependencies have been definitely increasing from the year 1933 34 In 1936 3; the exports were 83 million lb as against 54 million lb in 1933 34 About 98 per cent of the average annual exports to Aden and Dependencies are from Bombay and about 97 per cent of the aver

age annual exports from all the ports of the Bombay Presidency go to Aden and Dependencies Aden's trade in ummanufacture! Indian tobacco is thus almost entirely with the Bombay Presidency

Almost the whole of the unmanufactured tobacco exported to Aden and Dependences is of the bids and smoking type growing in the Charotar (Gujrat) area of the Bombas Presidency A little our half the tobacco exported comes from Baroda State

(b) Netherlands —The average annual exports to Netherlands about two million ib valued at 2.73 lakhs of rupees The exports during the pre depression period also were about 2 million ib annualit in 1930 31 she imported 2.3 million ib but in 1933.3 she took only a little less than a million ib but in 1933.4 she took and in the language of the highest quantity she purchased after 1925.26 From 1934.36 however the exports to Netherlands are declined. The import duty on all unmanufactured tobacco entering Netherlands 14 Florums for 100 bilos

Netherlands obtains about 87 per cent of her requirements of unaulfactured tobacco from her own colony the Netherlands East Indies About 10 per cent is obtained from the United States of America 2 per cent from Greece while India's share comes to about 1 per cent The demand in Netherlands for Indian leaf is for cheap tobacco like the primings or scraps obtained from Virgus and country cigarette tobacco grown in the Guntur district and the Jati tobacco of North Bengal The exports from India to Netherland, range from 1 to 2 million ib per vear, the quantity exported depending on the production in the Netherlands East Indies

(c) Japan —The average annual exports to Japan are 4 million to valued at about 11 lakis of rupees The exports during the predepression period (5 year ending 1929 30) average 23 million lb

Till 1934 35 Japan used to take between 1 and 2 million lb di unmanufactured tobacco annually from Bengal but from 1935-bit she has been importing almost entirely from Madras. The expet to Japan are mostly of the lighter and darker grades of county cagarette tobacco grown in the Guntur district of Madras

The average annual imports of unmanufactured tobacco me Japan are about 190 million ib out of which the United States of America supply about 65 million ib (35 per cent.), Philippines 32 million ib (28 per cent.) and 10 million ib (20 per cent.) and China 33 million ib (17 per cent.) All imports from the United States are of the fluctured types are considered to the property of the city and the constraints of the city are the constraints of the city and the constraints of the city and the constraints of the city of the city and the constraints of the city of the city

It is difficult to forecast the future trend of the demand from Japan on account of the present Sino-Japanese trouble Japan herself grows a large quantity of tobacco the average annual production ranging from 140 to 150 million lb The trend of her tobacco

production is on the increase during the past 5 years at the rate of 2 to o per cent per annum, and it is expected that the production will continue to expand at the same rate during the next 5 years, particularly in Korea where the conditions for the production of flue-cured leaf are reported to be encouraging It is well known that the policy of the Japanese Empire is to become self sufficient as far as possible in all lines of production Exports are being encouraged and imports discouraged. In consequence, the trend of imports into Japan is expected to fall within the next few years. Imports into Japan particularly from the United States and India are fast dwindling for the past 3 years Exports from India to Japan in 1936 37 were only 3 million lb as against 56 million lb in 1935 36 In 1937 38, there was a further decline to 23 million ib Imports into Japan from China, however, are expected to increase on account of the increasing production of flur cured tobacco in China and the lower prices at which China's product is offered for sale in the Japanese market In Japan all aspects of tobacco industry are con trolled by a Tobacco Monopoly Within recent months the Tobacco Monopoly has been required to furnish larger revenues to meet the increasing expenditure of the Japanese Government This already resulted in an increase in the prices of tobacco products, in consequence of which the consumption in Japan might restricted. It is perhaps not known that Japan herself exports fairly large quantities of unmanufactured tobacco and is trying to build up her trade in this line for the last few years. Her annual exports to China range from 2 to 3 million lb and in 1936 37 China took 77 million lb of Japanese tobacco Egypt takes 3 to 4 million The Japanese exports to Europe also appear to be on the rise though the Japanese tobacco leaf is reported to be quite different in taste and aroma from the American leaf. It is understood that the Japanese exports of unmanufactured tobacco have been well received in Europe, particularly in Germany on account of its cleanliness and standardised quality. The latest report from Germany how ever indicates that the Japanese leaf is inferior in flavour and does not keep its colour for a sufficiently long time. During the past 2 years sales of Japanese leaf in Europe have ranged from 2 to 3 million lb per year

On account of the present trade policy of Japan therefore it appears that India's exports to Japan might still further decline

a) Crutea Kingdom—(i) Total imports of unmanufacturea tobacco—The United Kingdom is the world's largest single purchaser of unmanufactured tobacco and over 35 per .ent of the exports from the United States the largest exporting "ountry were absorbed in the United Kingdom during the past decade. The imports continue to rise and in 1937 she took 464 per cent of the United States exports of unmanufactured tobacco. The bulk of the leaf exported from countries in the British Empire goes to the United Kingdom. The average annual imports of unmanufactured tobacco into the United Kingdom are 230 million ib (average for the 5 vears ending 1938) out of which only 49 million ib (21 3 per cent) are imported from the Empire countries. The average annual imports from the

Lutted States come to 178 million ib or 77 per cent The average annual imports from British India come to 12 million lb or a little less than one fourth of the total average annual imports from all Empire countries and 52 per cent of the total imports, from all countries The imports of umanufactured tobacco into the United Kingdom during the past several years from different countries are given in Appendix XALIS.

(1) Preference on Empire tobaccos—In 1919 imports from Empire countries formed only 4 per cent of the total imports of immanufactured tobacco. In September 1919, the United Kingdom accrided a preference to Empire tobacco to the extent of one sixth of the full rate of dut which at that time represented an advantage of 1: 4d per lb. In 1926 a further inducement to use Empire tobacco was given by reducing further th uniport duty on Empire tobacco to three fourths of the full rate of duty. This gave an adv.ntage of 2: 3d per lb to Empire tobacco. In 1927 an additional duty of 8d per lb was imposed on all tobaccos but no alteration was made in the Empire preference which remained at 2: 4d per lb. The last increase of duty of 8d per lb was made in 1931 and the pre ent rates of full and preferential duty on different type of unmanufactured and manufactured tobacco are as below—

Rates of import duty on unmanufactured and manufactured tobacco

	Rates of da	ity Per lb	
_	Full	Preferential	
Unmanufactured—	£sd	£sd	
If unstripped—			
every 100 lb or more of moisture in every 100 lb or weight thereof	0 9 6	0 7 5	
every 100 lb or weight though	0 10 6	0 8 27	
containing 10 lb or more of mosture in	0 8 61	0 7 5	
containing less than 10 lb moisture in every 100 lb or weight thereof	0 10 61	0 8 31	
Manufactured viz-	1		
Cigars	i		
Cigarettes	0 18 1	0 14 24	
Cavendish or Vegrohead	0 14 7	0 11 5	
Cavendish or Vegrobes 3 7	0 13 9	0 10 9	
	0 12 0	0 9 4	
onuli containing more than 19 it	0 12 0	0 9 47	
	0 11 4	0 8 10	
	1		
Souff not containing more than 13 lb of		4 10 05	
threef	0 15 0	0 10 9	

Under the Ottawa Agreement Act of 1932, these rates of duty have been stabilised for a period of 10 years from the date of the Ottawa Agreements with Empire countries (: e, until August 19, 1942)

As a result of these preferences, the imports from Empire countries increased from 14 million lb in 1919 to 43 million lb in 1928, with a farther rise to 57 million lb in 1937 (see Appendix XXIX) Further increase occurred in 1938 and during the 9 months. January to September 1938, the imports from Empire countries were 69 million lb India had its share r this rise of imports from Empire countries as will be seen from the following figures —

Imports of unmanufactured tobacco into the United Kingdom from

•		•		India		
Year.						Million lb
1919						4
1922						4
1925						8
1925						10
1931						9
1932						9
1933						13
1934						10
1935						12
1936						14
1937						19
1938	(nine	months	Jan	to Sept	1938)	30

The lower imports in 1931 and 1932 were due to trade depres sion. During these two years the total imports into the United Kingdom from other countries were also small. In 1934, there appears to have been a larger local demand for eigarette tobacco and hence. India exported a smaller quantity as compared with her exports in 1933. The imports in 1933 were the highest recorded but in 1938 a fresh record will be established as the imports during the first 9 months of the year January to September 1938 were over 297 million in the United Kingdom have increased very largely during the past 4 years.

(iii) Demand and consumption in the United Kingdom — Figures of imports alone do not give a complete ridea about the demand and consumption of unmanufactured tobacco in the United Kingdom Beron using for manufacture, the tobacco is kept in stock for at least two years to mature. Besides manufacturers prefer to with draw unmanufactured tobacco from the bonded warehouses as they require. Clearances from the bonded warehouses for home consumption therefore give a more correct idea about the demand of manufacturers. The annual average (for 5 years ending 1936) clearances of amazanafactured tobacco for home consumption are about 169 million Ib (see Appendix XXX) out of which Empire countries

constitute 41 million lb or 25 8 per cent. The rise in the consumption of Empire tobaccos from 1919 the year when preference was first accorded may be seen from the following figures —

Clearances of Empire tobaccos from bond for home consumption in the United Kingdon

***************************************	ea myaon	
Year	Thousands of Ib	Percentage to total clearances for home consumption.
1919	1 546	1 01
1922	8 412	5 82
1925	14 580	9 82
1928	26 628	16 62
1931	32 782	19 15
1932	36 970	21 68
1933	40 880	23 66
1934	40 545	22 22
1935	42 064	22 06
1936	45 588	22 66
1937	51 251	24 34
an .		

The great increase in the use of Empire tobacco between 1919 and 1932 was due to the gradual capture by the Empire countries of the pipe tobacco market It is estimated that by about 1932 the Empire countries captured about 70 per cent of the market for this type of tobacco Since then there has been a further steady advance and it is now estimated that about 80 per cent of the demand for pipe tobacco is met by Empire countries Until recently very little of Empire tobacco was used in the manufacture of cigarettes The coupon system adopted by manufacturers was at its height in 1933 and since manufacturers of coupon cigarettes used a certain amount of Empire tobacco to reduce their costs of manufacture as the principal types of Empire tobaccos are sold at a rate lower than that for the American there was a sudden rise in the consumption of Empire tobacco in 1933 When coupons were abolished early in 1934 by agreement among the traders a number of brands which had contained Empire tobacco disappeared and there was a check in the use of Empire tobacco which is shown by the 1934 figures Since 1935 however there has been an improvement in the consump tion of Empire tobacco and from 1936 there is for the first time evidence that Empire tobacco is being used in the ordinary established brands of eigarettes

Although Indian eigrarette tobacco has a mild and somewhat neutral flavour the eigrarette tobacco from most other Empire countries appears to have a distinctive flavour which is different from that of the American leaf As smokers are generally conservative in their taste eigrarettes rhaunifactured entirely from Empire tobacco have not yet eight the fance of British smokers. The pipe tobacco moker is less fastidious in his taste and the slight difference in

flavour is not so noticeable in pipe and chewing tobacco as in eigerette smoking. It was, therefore, easier for Empire tobacco to capture about four fifths of the British market for pipe tobacco. The prejudice against eigerettes made out of Empire tobacco, apparently still remains and therefore it might not be desirable for manu facturers to declare openly that they use a certain quantity of Empire tobacco in their blends for the popular brands of eigerette. When, however, where Empire tobaccos are blended with American, and no reference is made to the use of Empire tobacco, the eigerette smoker has accepted the eigerettes and as time goes on he will no doubt learn to appreciate the flavour of blends containing Indian tobacco particularly

On the other hand, it may be pointed out that though the pre ference was largely responsible for the expansion of imports of Empire tobacco, some credit is no doubt due to the gradual improve ment in its quality so as to approach that of the American types for which the English consumer has developed a taste improve ment in quality has been particularly noticeable in the leaf imported from India during recent years and it is understood that this factor has enabled the British manufacturer to use it in larger quantities for blending with the American in the manufacture of some of the popular brands of eigarettes

The average (for 5 years ending 1936) annual clearances of Indian tobacco for home consumption come to about 10 million lb or 63 per cent of the total withdrawals for consumption in the United Kingdom The trend of consumption of Indian tobacco during the past seven years may be seen from the following figures —

Clearances of Indian tobaccas for home consumption in the United

nances of	Indian toodeces for nome	consumption in the Unit
Year	K1ngdom	#I 1 II
		Thousand Ib
1931		9 125
1932		9 380
1933		9 487
1934		9,567
1935		9 811
1936		11 596
1937		14 363

It is evident that there has been a growing appreciation of the quality of Indian tobacco which has led to a marked increase in its consumption by British manufacturers in recent years

(11) Types of unmanufactured tobacco in demand and recent diannes in quality of Empire tobaccos particularly Indian tobaccos—The type of unmanufactured tobacco demanded by British manufacturers is determined by the type of manufactured article demanded by consumers. The three main forms in which tobacco is consumed in the United Kingdom are cigarettes eigars and pipe tobaccos. Apart from the rise in the total consumption of tobacco there has been an enormous difference in the relative position of the three products of manufactured tobacco consumed in Britain during the past 30 years as will be evident from the following figures $-\!\!\!\!-\!\!\!\!-$

Estimated annual consumption of different tobacco products in the United Kingdom

			-					
	C garettes	Cigars	Pipe to	obacco	Sn	uff	To	tal
Year	Million Per lb cent	Million Per		Per	Million Ib	Per cent	Million lb	Per cent
1907 (a)	°3 1 f	3 4	2 59 1	67 9	1 2	1 4	87 1	100 0
1924 (b)	4 1	10 1	l ol 7	39 5	0 4	03	131 0	100 0
193 0 c)	174 68	1 2 0	7 49 7	30 0	10	06	165 9	100 0
193o (c)	126 0 73	11 0	6 44 3	208	09	0 5	172 3	100 g
		1			1 1			

The enormous rise in the popularity of cigarettes and the fall in the consumption of cigars and pipe tobaccos during the last three decade are et dent. The further possib lities for developing the market i. Emil i.e. to bace s. i. the United Kingdom appear to lie matricly i... the t.p. eof tobacco required in the manufacture of eigarettes. The tact that about 9.5 per cent of the American tobacco imported into Britain so of the V rguinan flue cured type seems to indicate unmistakably the choice of the United Kingdom in favour of their type.

The type I leaf required in the manutacture of eigarettes is of a fight colour (yellow to bright lemon) medium to good and fine in texture with the least possible damage and blemish and pleasing aroma. Detailed statistics for each of the types of unmanufactured tobac imported into Britain are not available but since the begin mine of 1934 the Annual Trade and Navigation Accounts of the United Kingdom have been recording separately imports classified by

light and dark the term light covering flue cure't tobacco and dark sun and fire cured and Burley The following

⁽a Great Brita n and Ireland

⁽b) Gre t Britain

⁽c) Great Br tain and Northern Irela 1

⁽See Imper al Econom c Comm ttee s report on tobacco 1937)

figures analyse the imports into Britain from the Empire coun tries -

Imports of unmanufactured tobacco into the United Kingdom from Empire countries

	Ligi	Light		Dark		Total	
Year	Million 1b	Percent age rise (+) or fall (-) over pre ceding year	Million	Percent age rise (+) or fall (-) over pre ceding year	Million 1b	Percent age rise (+) or fall (-) over pre ceding year	
1934	28 8		18 8		47 6	1	
1935	25 9	-10 1	19 2	+21	45 1	-52	
1936	31 1	+20 1	21 7	+13 0	52 8	+17 1	
1937	33 9	+9 0	23 5	+83	57 4	+8 7	

It is evident from these figures that on an average about 50 per cent of the imports from the Empire countries are of the ligh.' type During these four years however the general rise and changes between proportions of light and 'dark' of the imports from India have been more interesting as will be evident from the following figures —

Imports of unmanufactured tobacco into the United Kingdom from India

	Ligh	ıt	Dark		Total		
Year	Million 1b	Percent age rise (+) or fall () over pre- ceding year	Villion 1b	Percent age rise (+) or fall() over pre ocding year	Million 1b	Percent age rise (+) or fall (-) over pre ceding year	
1934	4 8]	5 0	1	9 8	j	
1935	5 2	+83	64	+28 0	11 6	+18 4	
1936	7 5	+44 2	62	-3 1	13 7	-18 I	
1937	11 6	+54 7	7.6	1 22 6	19 2	±40 1	

It is apparent that imports from India have risen by a large proportion than the total Empire imports. Between 1934 and 1937 imports from India increased by about 98 per cent as against only 20 per cent from all the Empire countries. As compared with 1934 the imports of bight tobaccos from India increased by 141 per cent and those of dark types by 52 per cent in 1937. On an average over half the imports from India were of the 'light type suitable for manufacture of ciparettes though in 1937. India is proportion of light indicated was 61 per cent and 39 per cent respectively.

The bulk of the Indian tobacco shipped to England was how ever till recently considered unsuitable for cigarettes and use in the manufacture of pipe tobaccos particularly in the cheaper grades of shag Export of high grade eigarette leaf from India to the United Kingdom commenced particularly from the year 1934 35 since when the exports of this type of leaf are increasing and having been found suitable for the manufacture of cigarettes British manu facturers have now begun to tal e a keen interest in Indian tobaccos There is a growing volume of evidence to the effect that Indian light flue cured tobacco being neutral in flavour is definitely more suitable for blending with other grades of leaf and for use in the manufacture of cigarettes and that the United Kingdom might constitute a considerable market for this neutral Indian leaf if and when sufficiently large quantities are readily available collected by the Imperial Economic Committee in 1936 37 clearly indicates that if quality is maintained and improved if adequate and regular supplies of high grade leaf become available and if satis factory marketing arrangements are devised there are fair prospects for an expansion in India's shipments of tobacco to the United Kingdom

Almost the only area of importance in India exporting unmanufactured tobacco to the United Kingdom is Guntur in the Madras Presidency Evidence collected in this area indicates that since 1934 35 90 per cent of the exports to the United Kingdom are of the Virginua flue cured type the rest being Virginia sun cured and the first grade of sun cured country (Natu)

Indian fine cured virginia tobacco is thus appaiently trying to catch the fancy of British manufacturers. The United Kingdom imports on an average 230 million lib of which the Empire contribution comes to only about 49 million lib and India's share is about 12 million lib.

Almost all the flue cured leaf is stripped before export from India excepting the first grade while sun cuted country is exported unstripped except the first grade. The production of the first grade virgina flue cured is small be not estimated at 5 per cent of the total though for the veas 196 87 the proportion was estimated at about 10 per cent. The first grade Valu (country) tobacco forms less than 5 per cent of the total production of country cigarcetic leaf. The built of the exported is a therefore now being stripped before despatch. The advantages of exporting stripped leaf are obvious

in view of the heavy import duty in the United Kingdom the saving in freight on the transport of stems and the lower costs of stripping in India Indian exporters have realised this during the past four years and figures of imports of Indian tobacco into the United King dom show that imports of stripped leaf are rising fast while those of unstripped leaf have largely declined as can be seen from the following table —

Imports of Indian unmanufactured tobacco into the United

	(Million lb)		
Year	Strips	Leaf	Total
19 4	6 8	3 0	98
1935	8 9	2 7	11 0
1970	19 6	11	13 7
1937	18 1	1 1	19 2

There are therefore bright possibilities for Indian tobacco in the British market. This market however is most critical and if India wants to expand her trade in unmanufactured tobacco with Britian she must not only maintain and improve the quality of her produce but assure the British manufacturers of a consistent supply of specific quality from year to vear. It is well known that manu appreciable change in the taste and flavour of their products from year to year and if India wants them to use her tobacco in their blends they must be assured of a consistent supply of uniform quality. It has taken this country several years to convince the manufacturers in England that she can produce Virginia flue cured leaf of a quality as good as any produced in other parts of the British further it is essential that immediate steps should be taken to improve the methods of marketing particularly with regard to the adoption of standard methods of processing grading and packing especially of tobacco shipped on consignment. These subjects will be referred to in detail later.

INTER CHAPTER TWO

Over a thousand million pounds of tobacco are consumed annually in India All the produce must pass through the process of manufacture except perhaps in the case of some hookah and chewing tobaccos. The annual consumption per head averages 29 lb per annum in India and about 64 lb in Burma Incidentally it may be observed that the consumption in India approximates to that of France, and the high rate of consumption in Burma corresponds roughly with the figures of the United States and the Netherlands

The demand for tobacco in its various forms differs from one part of the country to the other Cigarette smoking is becoming more fashionable throughout the world and India is following the fashion

The highest rate of consumption of eigarettes, viz, fifty four per head per annum is found in Sind and is more than 21 times the average for the whole of India The consumption is also high in Assam, Bombay, Baroda and Mysore, although the biggest total annual consumption is in Bengal Other outstanding provinces apart from Bombay are the United Provinces, Bihar and Orissa Madras and Nizim's Dominions

The per capita consumption in Madias and the Umited Provinces represents only 10 agarettes per annum. This is due to the fact that in Madias the consumption of cigars and cheroots is enormous, being 372 per head per annum while the low rate of consumption in the United Provinces is associated with a high consumption of hookalh, chewing and snuff tobaccos, viz, 44 lb per head per annum. The next largest consumption of cigars and cheroots is only 5 cigars and cheroots per head per annum found in the Nizam's Dominions.

This is closely followed by Bengal with 4. The highest consumption of hoohah, chewing and snuff tobaccos is in the N W F P at 63 lb per capita per annum followed by the United Provinces with 44 lb. As regards the annual consumption of bidis, Sind takes the lead with 687 and Nizam's Dominions are a close second with 664 per head. The consumption of bidis is noticeably low in the North West Frontier Province and the Punjab where the figure is only 1 and 5 per head per annum respectively.

Tobacco chewing is prevalent in Madras Mysore and Travancore are also heavy consumers of chewing tobacco and large quantities of a special type (Jaffna) are imported annually from Cevlon into Travancore for this purpose In Bihar, United Provinces and Bengal also chewing is popular. The use of snuff is prevalent in the North West Frontier Province and to a certain extent in Madras and other areas.

The rate of consumption of cigars and cheroots in Burma is enormously high being 547 per head per annum

It is important that growers should realise the special qualities required by manufacturers. Fluctured Virginia cigarette tobacco should have a bright lemon colour and a fine silky texture with very little blemish or damage. Similar qualities are required for sun cured eigerette tobacco but the colour in this case is not so bright. Cigar leaf should be a uniform brown colour preferably without any greenish tinge and have a good continuous burn, a strong agreeable flavour and pleasant aroma, and the leaves should be large. Similar characteristics are required in the case of cheroot leaf Bidi tobacco should consist of strong thick leaves which can be broken into small preces (bidi powder). The colour should be a light orange vellow and greenish in the Gujerat area, but brownish red is expected in Nipani

tobacco by buyers in Sind, Rajputana, Central provinces and elsewhere *Hookah* tobacco leaf should be broad, coarse and thick with thin viens, strong flavour, slow continuous burn and of a brown earthy colour. Thick ness and good body is required in the leaf of chewing tobacco which should be reddish brown and with a good biting taste. For snuff the tobacco should be strong in flavour with a bright yellow colour and the leaf should be brittle.

It seems equally important that the manufacturers of tobacco products should realise that the quality of the various products required by individual consumers and also in different districts, varies considerably smokers prefer a strong flavour and others mild the bids true in all cases whether for cigarettes, eigars, bids or hoohal.

The majority of the people in the north prefer a strong hookah tobacco and in the west they prefer strong holds rather than milder types favoured in other parts of the country. In the south the preference is for a strong cheroot while in other parts of the country mild eigars and cheroot, are preferred

There is no particular periodicity in the consumption of tobacco products but the general tendency is for less to be smoked during the hot whether and the rains than in the cold weather. Manufacturers, however, prefer to buy most of their requirements immediately after the harvest and on this account tobacco growers are in a much more favourable position than other agricultural producers. It seems clear that the manufacturers and processors are anxious to get supplies as soon as possible after harvest mainly because the quality is better at that time and although it will improve on keeping this can only be ensured if the subsequent processing and storage are carefully and properly done. Manufacturers, there fore, prefer to do this themselves and well over half of

the manufactured to bacco is bought up during the post harvest months, March to July

The general trend of tobacco consumption in India is upward, particularly in the case of cigaret*es—It is difficult to say whether the growing popularity of the cigarette is ade isely affecting the consumption of hoohah tobacco—There seems no doubt however—that it has affected the consumption of hidis and seriously reduced the use of cigars not only in this country but abroad

In Madias for example the cigar and cheroot industry which employed about 30,000 people during its prosperous period can now hardly find work for more than 10,000. Similarly the export trade in Burma cheroots has suffered a serious set-back in recent years. This tendency is of overwhelming importance from the growers' point of view and particularly of those growers who are producing tobacco for export. Three or four years ago the United Kingdom, which is the largest buyer of Indian tobacco, bought more dark than light tobacco from this country, but the amount of light tobacco has increased rapidly in the last few years.

In the course of 5 or 6 years the imports of unmanufactured tobacco into the Umted Kingdom from India have more than doubled. As a result of the Preference the proportion of Empire tobacco consumed in the Umted Kingdom is now over 24 per cent of the total, and has been rapidly increasing. The amount of Indian tobacco used has increased still more rapidly, which seems to show that buyers in the Umted Kingdom are now beginning to appreciate the good quality of Indian eigarette leaf. It is, however, essential that in those areas of this country which are considered suitable for the production of Virgima eigarette tobacco, the growers should realise the great importance of quality and continue their efforts to improve it

It is not only a question for growers, however, since the demand in the United Kingdom is mainly for leaf LICAR which has been properly stripped (i.e., with the mid nb removed), reconditioned, graded correctly for colour, texture, etc, and properly pressed and packed. The individual grower is not capable of undertaking the highly skilled and somewhat expensive processing involved. It is therefore important that exporters and owners of reconditioning plants, which have been in creasing recently should realise their responsibilities in the matter and take every possible step to munitain and im rove the character and reputation of Indian tobacco exported abroad.

The export trade with Japan presents certain difficulties and its future seems problematical since Japan itself produces and exports unmanufactured tobacco to Europe, particularly to Germany, where it is claimed that on account of its cleanliness and standardised quality it is being well received in spite of its inferior flavour and poor ke ping quality. The exports of Indian suncured country tobacco to Japan do not normally commence till September and producers and the trade are in this case rather at a disadvantage in so far as they are not aware of the requirements of the Japanese Tobacco Monop by till six months after the crop has been harvested

There is no reason why the present export of "primings or scraps" to the Netherlands should not continue and be expanded, but such tobacco should be clerily marked at the time of export to distinguish it from the high quality cigarette type. Some consideration needs to be given to Indian producers of cheroot leaf who have an export trade with Burma. In view of the decreased consumption and export of cheroots it would be desirable for the agricultural departments concerned—particularly in Bengal—to give their immediate attention to the possibility of producing other types in those areas.

A -Introductory

Few other agricultural products show such large range of quality as tobacco. The quality varies even in the same type variety and season from district to district and often from one field to another particularly in the case of indigenous types of tobacco. There have been hitherto no recommized grades of the different ourlities and r is therefore almost impossible to ge any price series which will give a dependable idea about the territorial and periodical variation i prices. The fact that merchants from distant areas and even tion England have to visit either personally or through representatives? the tobacco producing areas for making direct purchases and cates; strongly that written contracts specifying requirements by calling, for samples by post are not possible under the existing circumstances It may be mentioned incidentally that due probably to these difficult ties that forward contracts in any form are not current excepting my the case of Virginia flue cured eigarette leaf for which some buyers, enter into contract with growers for delivery of leaf of different qualities at prices specified in the contract as will be explained lat r in the chapter on Assembling The chances of introducing i futures market for this commodity appear remote. Official price quotations available in extremely few cases have very little commercial use in connection with trade between producing and consuming centres as they specify neither the type nor the quality. They are apparently all that can be expected under the existing trade methods and in the absence of any definite system of classification and grading, of tobacco found in the market Growers seldom keep any record of prices realised excepting possibly some of them in the Charotar areas of Bombay Presidency while in the case of a few big tobacco merchants who maintain accounts it is difficult in most cases to trace the trend of prices backwards for more than a few years their account books give no indication of quality and as such that prices extracted from them do not form a uniform series. In this circumstances the best that can be done is to indicate approximately with the help of the available data the general trend of seasonal augu-

annual variations in prices of some of the important types of tobacce B-Trend and seasonal variations in prices of cured tohacco area

grown and sold in different parts of the country

(1) CIGARETTE AND PIPE TOBACCO

(a) Virginia flue-cured —(1) Guntur—The average harvest prices of raw Virginia flue-cured eigarette tobacco in Guntur district

during the past eight years were as below -

Harvest prices of raw flue cured 1 arginia eigarette tobacco at Guntur

	Г еаг	Price p	er candy of 00 lb.	Percentage mae (+) or fall (-) over the preceding year
			Rs	
1930		I I	128	1
1931			1°8	1
1932			154	±20 3
1933		1	148	1 39
1934		1	12"	-14 2
1935		1	143	+12 6
1936			150	+ 4 9
193"			18	+24 7

It is apparent that prices are risine rapidly since 1935 and in 1937 they were about 46 per cent higher than in 1930. The leading buver of ctrarette leaf in Guntur (the Indian Leaf Tobacco Development Co (India) Ltd.) generally purchases on the basis of prices of sufferent crades specified in the contract made by the firm with growers. The contracted prices have been 9 annas per pound for the first grade 7 annas for the second o annas for the third 3 annas for the fourth grade and 1 anna per pound for scraps and rejections. The average price plad by the firm rainered between 4 to 5 annas per pound during the second in 1937 an average of about 6 annas per pound was paid owing to the high level of prices prevailing during the season

The statement in Appendix XXXI and the diagram fame page 77 show the monthly buying prices of merchants as extracted from the books of two exporting firms at Guntin The prices are high immediately after harvest unlike many other types of tobacco and almost all the other agricultural products. Colour is by far the most important factor determining quality of cicarette leaf and sincer rapidly deteriorates under ordinary uncontrolled conditions of storage and temperature growers try to dispose of their produce immediately after arms. The lots offered for sale later vary about a couple of months after curing are usually of poorer quality and it is for the reason that the growers prices of cigarette tobacco immediately after harvest appear relatively high. Sale of cured leaf comments by about the middle of January when fancy prices are asked for ty growers particularly during the past 4 years. Prices generally risk high during February to May by which time most of the growers.

sell off their erop Till the end of 1933, a few substantial growers used to hold over a small part of their crop to be sold during the latter part of the year, but realising the difficulty of storing under ordinary conditions, they now part with their produce immediately after curing, Re-conditioning, which should be done as soon as possible after curing, and subsequent storage of cigarette leaf require special large scale equipment and facilities that are expensive and beyond the requirements of individual growers

(ii) Mysore—Virginia flue cured leaf is being grown in the Mysore State on commercial lines only during the past 5 years and the average prices realised were as below—

Prices of raw flue cured Virginia cigarette tobacco at Whitefield near Bangalore

				Banga	lore				
-	Year				Average	prie	e per ll	Ь	
						R ₅	A	P	
	1933					0	5	4	
	1934								
	1935	-					4	•	
	1936					0	ə		
	1937					0	6	0	

The area is vet small and almost all the leaf is sold off during November to January. The following figures show the prices realised for different grades during the past 3 years —

Grade No	1930	1936	1937	
	Ra A P	Ps & P	Rs 4. P	
I	0 9 0	0 10 0	0 10 0	
n	0 8 0	0 8 0	0 10 0	
ш	050	0 6 6	0 8 0	
IV	0 5 0	0 6 6	0 8 0	
V	0 2 5	0 2 6	0 2 6	
VI	0 1 6	0 2 0	0 2 0	
Durk green	016	0 2 0	0 2 0	
Scraps	0 1 6	0 1 0	0 1 3	

⁽¹¹⁾ Saharanpur (U P) —The few growers who produce fluecured leaf round about Saharanpur and Jhansı in the Luited Provinces, dispose of their tobacco to cigarette factories in India by Private negotiations on the basis of samples of different grades. The

average prices realised for different grades during the past three years

restrict realised for raw flue cured Virginia cigarette leaf at Saharan

en							
9711 f Grade No	1935	1936	1937				
i) , it is							
ī	11	9	10				
r ir II	9	7	8				
r lbm	6	5	6				
IV	3	4	4				

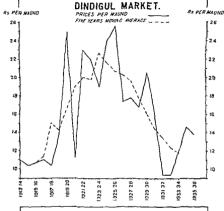
In this area too the leaf is sold off immediately after it is ready for the market during October and November

(b) Virginia sun cured —The production of Virginia sun cured (reck cured) is small. Although a little is done in Saharappur and other areas the production is mainly confided to Guntur district in Mactas. The area estimated in 1934 35 was about 2000 acres bit from 1935 36 onwards the area and quantity of Virginia leaf prepared by the rack cur nσ method has considerably declined due to the increasing prices prevailing for flue cured leaf and as such sales of Virginia as un cured leaf from 1935 36 have been small and occasional The following figures denote the average annual prices of Virginia as un cured teaf during the four veins rending 1935.

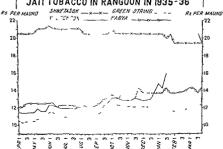
, Prices of Virginia sun cured raw leaf

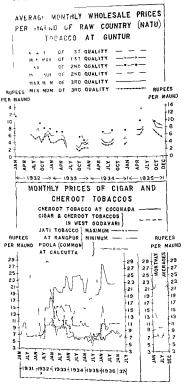
1	(1	Rupees per maun	ıđ)			
(6)		Quh	Quhty I			
0 6						
0 P	Year	Max m m	M nimum 	Maximum	Minimum	
						
1939		9.5	6.5	6 4	4 3	
19 3 3 j		63	3 9	3 9	19	
1934		8.6	5 4	5 4	2 9	
19311		10 0	- 0	6 6	4 4	
The			<u> </u>	<u> </u>	<u></u>	

AVERAGE ANNUAL EX-FACTORY PRICES PER MAUND OF CIGAR TOBACCO AT



WEEKLY WHOLESALE PRICES OF IMPORTED JATI TOBACCO IN RANGOON IN 1935-36





The pieces thus dropped in 1935 but recovered during the next year and in 1935 were high — In 1936 and 1937 the quantity available was small

The statement in Appendix NXXII showing the monthly prices and the diagrim facing pive 77 indicate that the prices rule high in April and May, i.e., immediately after haivesting and curing. In 1934, however, the prices studdenly rose from September and can funded to be high till the end of the year, due to the large Japanese demand in that year.

(c) Country tobacco—(i) Guntur—The average annual prices of country (Adul) tobacco grown in Guntur district during the past 5 years were as below —

Prices of country (Natu) ray tobacco at Guntur

	Prices of country (Natu) rau tobacco at Guntur						
	λear	Per candy of 500 lb	Percentage rise (+) or fall (-) over the preceding year				
	······································	Rs					
1932		57	l				
1933		30	47 4				
1934		30					
1935		54	+80 0				
1936		43	20 4				
1937		e0	+16 3				
		1					

Prices were thus low in 1933 and 1934 during which period the prices of Virginia flue cured leaf also were low. In 1935 there was a sharp rise followed by a decline in 1936. In 1937 the prices rose by about 18 per cent over the previous year. Japan is the largest single bower for this type of tobaceo and the Japanese demand has in consequence considerable influence in the determination of its price. In 1934 35 the export, to Japan were the highest during recent years and hence there was a sudden rise in prices in 1935. In 1935 36 also Japan tower the prices dropped down by about 20 per cent. In 1936 due chiefs, to the fall in internal demand for Virginia flue curied leaf. In 1937 the prices recovered by over 16 per cent on account of the general rise in prices of several types of tobaceo.

Appendax XXXIII and the diagram facing this page show the monthly trend of prices. The prices are generally high in April to June commence to fall by July but rise again by about October November. Shipments to Japan commence by about September and any variation in these shipments affect the prices during the latter part of the year. The prices in April to June are high as the best quality leaf is offered for sale during this period.

(11) Bihar -Desi tobacco grown in North Bihar used to be pur chased by one firm in fairly large quantities till 193; for the manu facture of cheap cigarettes but from that year onwards the demand has considerably fallen and now practically reached a vanishing point The average price paid for ian leaf ranged from Rs 866 to Rs 8 10 6 per standard maund or roughly 1 anna 8 pies per lb it 1935 This fall in demand and price is said to be due to the parti cular earthy flavour of B har tobacco which does not improve even after prol nged storage and blending with other tobaccos

(2) CICAP AND CHLPOOT TOBACCO

(a) Madras -Dindigul Trichinopoly and Madras are the most important eigai n anufa turing centres in the country The diagram tacing page 117 and the statement given in Appendix XXXIV indicate that the average annual eight leaf prices during the post-depress on years are considerably above the pre-war level. The highest prices were paid during 1925 26 but in 1931 32 and 1932 33 the prices were extremely low even lower than the pre war prices due to the effects of the trade depression. There has been however a recovery since 1933 34 The long period average prices during the past 23 years were as follow

IOHOWS	
Period	Average price per maun
	Rs A P
1913 14 to 1917 18	10 11 0
1918 19 to 1922 23	19 0 0
1923 24 to 1927 28	20 12 0
1928 29 to 1932 33	14 10 0
1933 34 to 1935 36	13 8 0

It can be seen therefore that the price level was at its height during the quinquennium ending 1927 28 The sudden drop during the next five years ending 1932 33 was due to the low prices prevail mg durmg 1931 32 and 1932 33

A reference to the following figures shows that the manufac turer's average annual buying wholesale prices of Trichinopoly cigar fillers have been stationary since 1931 except in the year 1935 when the price rose and nearly reached the pre war price level The increase in the prices in 1935 was about 25 per cent as compared with the previous year

Average annual prices of Trichingpoly organ filters at Madras nđ

	prices of	1 renthopoly	cigar	puers at	262	uur	٠.,
r				Price 1	per	maı	ır
				Rs	Α	P	
0				10	10	0	
5							
0						-	
1						-	
	•••			8	3		
				8	3	0	
				8	3	0	
4	_	_			3	0	
5					_		
	7 5 0 1 2 3 4	7 5 5 0 1 2 3 3	7 0 0 0 0 1 1 2 3 4	t 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Price Price Ra Price Ra Price Ra Price Price	Price per Rs A 10 10 10 11 15 11 16 11 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Frice per man Ra A r 10 Ra A r 10 10 0 13 5 0 21 2 0 1 8 3 0 8 3 0 4 5 - 8 3 0

The available information shows that the highest prices were received in 1920, but from 1921 the prices declined

A Dindigul orders are placed on samples. In some years only one price is paid, in some two or three merchants sell, each at different prices. Ordinarily, eigar tobaccos available in the market, are a combination of wrapper, binder and filler, the larger the proportion of wrappers the better being the price offered. The three kinds, tiz., wrapper, filler and binder are not sold separately. A commercially good type is on which serves for all uses, tiz., wrappers, binders and fillers, in the manufacture of eigars and cheroots. A variety like Usikkapal fetches better prices on account of its distinctive flavour.

The prices of the Lankas cheroot tobaccos during the three vais

	Price	Price per maund				
Quantity	1933	1934	1935	fall () (1933 35)		
	Rs	Rs	Rs	! !		
Lankas (Baru or Long)	20 0	23 5	21 o	+8		
Lankas (Mattasam or Medium)	14 0	13 3	11 6	_17		
Lankas (Kurchs or Small)	8 3	6.6	6 6	20		
				4		

It can thus be seen that while the prices of the first quality rose in 1934, the prices of the second and third qualities declined. The prices in 1935 were about 8 per cent more than in 1935 for the first quality, but those of the second and third qualities declined by 17 per cent and 20 per cent respectively during the same period in 1936 and 1937 the prices improved considerably as can be seen from the statement in Appendix XXXVI

The Meltupologum cherrot tobacco was selling at Rs 16 per mand in 1934 35, Rs 12 8 0 in 1935 36 and Rs 14 in 1936 37 at Cannanore Tobacco from Chebrole in Guntur district used locally for cheroots is considered to be an expensive type of tobacco as it is in great demand in Guntur district and round about because of its strength and sells at Rs 50 to Rs 60 per maund

Apart from the general conditions of supply and demand, the year to year variation in prices are very largely due to variations in quality on account of seasonal factors

Appendices XXXV and XXXVI and the diagram facing page 117 give the average monthly prices of West Godavari and Lankas

eight and cheroot tobaccos. The growers' marketing period in normally from April to September, though fresh leaf begins to appear on the market in March. In the case of Godaran tobacco the prices begin to fall from January till they reach their minimum in March from which time enwards the prices continue to be low till July when they begin to rise, reaching the maximum limit sometime in December. In the case of Lankas tobacco the month to month variation in prices is small the lower level is usually reached in February and March when the new crop is about to come in the market and from October to November by which period better quality tobacco is sold away to manufacturers. Prices are generally high in April to June and from July commence to decline

(b) Bengal—The Jati tobacco (known to the trade as Pools Common, Pools Good or Bhengi) is largely used in the manufacture of Burma cheroots

The average prices realised for *Bhengi* tobacco grown at the Government Buurhat Farm near Rangpur during the past thirteen years were as under —

Year	Price per maund	Percentage rise (- or fall () over the previous year	
	Rs A P		
1924 25	10 0 0		
1925 96	14 0 0	+40	
1926 27	13 0 0	— 7 O	
1927 28	18 0 0	+38 5	
1928 29	35 0 0	+94 4	
1929 30	15 0 0	_57 1	
1930 31	5 8 0	-63 3	
1931 32	800	+45 5	
1932 33	10 0 0	+25 0	
1933 34	11 0 0	+10 0	
1934 35	8 9 0	-22 2	
1935 36	8 13 0	+ 3 0	
1936 37	10 10 0	+20 6	

Considering the rise and fall in prices during the past 12 years, it will be seen that a rise was recorded during 8 out of 12 years. The prices reached their maximum in 1928 29 just before the depression

commenced, but from 1929-30 the prices declined greatly reaching their minimum in 1930-31, the first year of the depression From the next year, however the prices recovered and in 1933-34 were double the prices prevailing in 1930-31. In 1934-35, there was a fall of 22 per cent but from 1935-36 they have recovered and the precess is shightly higher than that prevailing in 1924-25

The statement in Appendix NXXVII shows the prices realised for the different types of eigar and cheroot tobaccos grown at the Government Burirhal Farm. It will be seen that the prices of imported "varieties have dropped down to a greater extent that those of the local variety. Bheng. Thus in 1935-36 the price of Sumatra variety, quality (a) was only one-eight of the price prevail ing in 1924-25. Similarly the corresponding price level of Sumatra (b) quality was one seventh of (c) quality one fifth and of Vanila and Pennsylvania one eight. The price of Burmess Hatana in 1936-37 was only a tenth of the price ruling in 1924-25. These exotic varieties however are not grown commercially to any exfent and the price quotations refer to small quantities produced experimentally on a Government Farm.

The average annual merchants buying prices of Iati tobacco at Rangour were as below —

Average prices of Jats tobacco at Ranapur

Year		Price per	Price per maund		
		Rs	4	r	
1927		18	0	0	
1928		20	0	0	+11 1
1929		12	0	0	-40 0
1930		8	û	0	-33 3
1931		6	0	0	-9> 0
1932		-	ú	0	→ 16 ~
1933		10	8	0	+50 0
1934		7 1	12	0	96 2
1935		8	4	0	+ 6 4
1936		10	0	0	+21 2
1937		10	8	0	+ 50

Out of 10 years six years recorded a rise in prices. The sudden drop in prices from 1929 compares with the figures given earlier In 1930 to 1932 the prices were very low due to trade depression. In 1933 they recovered followed again by a drop during the next yer-From 1935 the trend appears to be definitely unwards.

The middle leaves of Jati tobacco are called Poola which is siddivided into common and good in the Calcutti marilet. The state ment in Appendix XYXVIII and the diagram facing page 117 show the average monthly prices of Ioola (Common) tobacco in the Calcutta marilet as published in the Calcutta Prices Current and Money Market Report' published by the Bengal Chamber of Commerce. It is the Poola leaf which is exported in large quantities to Burma for the manufacture of c gars and cheroots

The taten ent shows that the prices declined from 1930 to 193? recovered by about 30 per cent in 1933 but fell again in 1934. From 1930 however the trend of prices appears to be on the rise prices of Poola (Good) in the Calcutta market are about 8 to 12 amas per maind more than those for Poola (Gommon).

Appendix XYXIA and the diagram facing page 117 give the monthly prices of Jati tobacco at Rangpur during the past 5 years. The tobacco is harvested in February to April the normal marketing season being May to October. The price level immediately after harvest is low particularly from May to August. By September it commences to rise and reaches a high level in January 22d remained at Rs. 11 per manual from August to April. It appears that the month to month variations in prices are smaller in a termical and distributing market like Calcutta than those in prices prevailing in a primary and secondary market like Rangpur (see Appendices XXXVIII and XXXXII).

(c) Burma—The statement in Appendix XL shows the average monthly prices of Burmese again and cheroot tobaccos in three important markets in Burma as published in the Burma Gazette Tre figures show that at Henzada the prices ranged from Rs 2140 per maind in 1934 35 to Rs 4 6 0 per maind in 1939 33 and 1933 34 in 1935 at 1935 36 the average annual price was Rs 3 5 0 per maind the average annual price was Rs 3 5 0 per maind 3 flavor the average maind space in 1935 36 was Rs 5 per maind a squarist Rs 4 8 0 in 1931 32 R 6 6 0 in 1933 34 and Rs 6-30 in 1934 35 4t Pakol the average price in 1935 36 was Rs 3 140 per maind as compared with Rs 6 60 per maind in 1934 35 th indicating a fall of 30 per cent These official price quotations however do not specify the variety and are reported to refer to average quality produce and as such they are of himted use in the trade

The average annual prices of the well-known Desi cheroot tobaccos grown in the Shwegyin area of Burma as obtained in the

Rangoon market during the past 3 years, were as below -Average annual prices of Desi (Shuegyin) cheroot tobacco in Rangoon

market (Per maund)							
Quality	1934 35	1935-36	1936 37				
	Rs A. P	Rs A P	Rs A P				
1	10 4 0	12 8 0	14 13 0				
п	7 15 0	9 14 0	12 9 0				
m	5 12 0	780	920				
īv	4 9 0	600	790				

Giving equal weight to the four qualities since their relative pro portion is not known, the average annual price was Rs 720 per maund in 1934-35 Rs 8 156 in 1935-36 and Rs 11 in 1936-37 Thus in 1936 37 the prices were about 54 per cent higher than those pre vailing in 1934 35

The following figures indicate the trend of prices of different varieties of local cheroot tobacco sold in Myingyan market

As arons annual piness of different and the state of the sant different and the sant differ

Attrage	THE PARTY OF	prices	υj	uigereni		o_I	cnerooi	tooacco	aı
				Myingy	an.				
				-333					
				(Per	maund.)				
				1-01					

(Per maund.)						
1934 35	1935 36	1936 37	Percentage fall () 1934 35 to 1936-37			
Rsar	Ra. A P	Rear				
13 5 0	10 4 0	920	31			
11 11 0	8 11 0	800	—3 1			
9 7 0	6 14 0	5 12 0	39			
6 5 0	4 12 0	3 12 0	-40			
400	3 3 0	300	25			
	1934 35 Rs A F 13 5 0 11 11 0 9 7 0 6 5 0	Rs A P Rs A P 135 36 Rs A P 10 10 4 0 11 11 0 8 11 0 9 7 0 6 14 0 6 5 0 4 12 0	Rs A P Rs. A P Rs A P 135 36 1936 37 Rs A P 13 5 0 10 4 0 9 2 0 11 11 0 8 11 0 8 0 0 9 7 0 6 14 0 5 12 0 6 5 0 4 12 0 3 12 0			

It is significant to note that the prices of these varieties declined by 25 to 40 per cent during the period 1934 35 to 1936 37 as against a rise in the Shweggin tobaccos during the same period. It may further be noted that while Shwegyin tobaccos are used in the marifacture of superior cheroots the varieties sold in Myinggan at generally used in the manufacture of cheap torch cheroots I appears therefore that the prices of better quality tobacco are rising while those of inferior quality are declining

The tobacco leaf imported into Burma from Rangpur and Coci Behar in Bengal via Calcutta is Inovin by different Burnese commercial names hie I wetdoon, Skuedasok, Kabya and Green String Yustchoon is and Green String Yustchoon in the manufacture of ord cheroots of different qualities and for chewing In 1935 36 the average prices of these 4 cm mercial types in the Rangoom marlet were as below —

	Per maund
Shwetasok	Rs A P
Kabya	18 5 0
Green String	13 0 0
Ywetchoon	11 8 0
The state	12 11 0

The statement in Appendix XLI shows the average weekly prices of these four varieties prevailing in the Rangoon market in 1935 36 The figures and the diagram facing page 116 indicate that in the case of Shuetasok the prices rule low during February and March From April they commence to rise and reach maximum June In July there is a slight fall which continues till the end of September In October there is a slight rise but afterwards in prices continue to fluctuate within a small range of Rs 20 to Rs 2080 per maund till the end of January In the case of Kabua April to August app ars to be a p 110d of low prices which range from Rs 12 to Rs 12 80 per maund From the letter half of September the price commences to rise till it reaches to a level of about Rs 1450 per maund by about the end of November December there is a slight fall but on the whole the prices appeat to rule high from December to the end of March For Green Strug April to August seems to be the period of low prices which range from Rs 1050 to Rs 1160 per maund during this period From September the prices commence to rise and in October reach about Rs 1250 per maund The high prices continue throughout Nover ber From December the prices decline and reach to about Rs 11 12 b per manufa in February They however again rise in March which appears to be a month of maximum monthly prices. The prices of Yuetchoon continue at a low level of Rs. 1160 to Rs. 1250 per mand from April to the end of August From early September there is a small rise which continues till the end of January when the price reaches to about Rs 16 per manual March appears to be a month of maximum prices which rule at Rs 1960 to Rs 2080

(3) Bidi Tobacco

(a) Bombay—(s) Charotar area—The following figures shot the annual average prices of two of the best varieties (Lal and Litto) of bid tobacco grown in the Charotar area of Bombar Gujrat, as obtained by the growers during the past 12 years the price figures having been extracted from the account books of several tobacco growers and village moddlemen

Prices of bidi tobacco in Kaira district

	(Bh.iloo	powder)	Lilro (Bh: Lo or powder)		
Year	Price per Md	Percentage rise (+) or fall (-) over previous year	Price per Md	Percentage rLe(+) or fall(-) over previous year	
	Rear		Rs a, p		
1996	14 2 6		13 14 3		
1927	14 3 7	+ 0 5	16 15 0	+17 6	
1998	13 4 2	-68	17 3 3	+15	
1929	11 15 5	- 9 8	14 6 1	-16 6	
1930	7 10 11	-26 5	10 7 8	27 0	
1931	10 5 7	+30 5	10 10 11	+19	
1932	7 11 3	-26 8	980	-11 7	
1933	8 13 11	+13 2	10 6 2	+92	
1934	10 11 9	±21 1	11 7 9	+10 8	
1935	711.7	-27 9	10 5 6	- 98	
1936	10 8 0	+35 5	10 1, 6	+ 4 2	
1937	12 8 4	±19 1	12 9 0	+16 3	

It is apparent that five of the 12 years recorded a fall in prices in the case of both the varieties. The prices rose till 1928 thou.1 the prices of Lai recorded a fall in 1928. In 1929 there was a sudden drop of 9 8 per cent in Lai and 16 6 per cent. In Lilia prices. The prices further declined by about 27 per cent during the next year but in 1931 there was a sharp recovery of over 35 per cent in Lai and 2 per cent in Lilia in the year next year however, there was a sharp fall to be followed again by a rise 11 for the year.

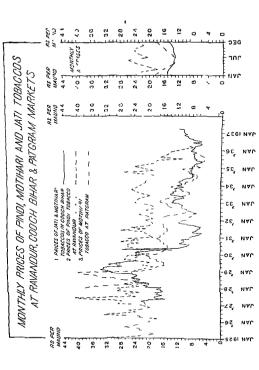
1933 and 1934 In 1935, there was an appreciable drop, but from 1936 the trend of prices is apparently on the rise The series economic depression commenced late in 1930, but it appears from the quotations green above that the depression did not have much effect in lowering the prices

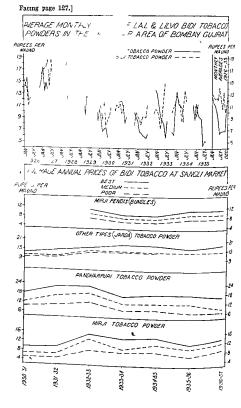
The following figures show the maximum and minimum (trade) prices of average quality bidi leaf and powder (average of all varieties) during the last thirteen years —

Prices of average quality bidi leaf and pouder at Nadiad market

	(Per maund)							
77	Leaf in b	undles	Powder					
Year	Minimum	Mazzmum	Minimum	Maximum.				
1925 1926	Rs A P	Rs A P	Rs A P 9 12 0	Rs 4. F				
1927	13 11 5 13 11 5	23 8 2	9 12 9 9 12 9	19 9 5 19 9 5				
1928 1929	5 14 0	11 12 1	3 14 8	7 13 5				
1930	5 14 0 7 13 5	11 12 1 13 11 5	3 14 8 5 14 0	7 13 5 9 12 9				
1931 1932	7 13 5 5 14 0	13 11 5	5 14 0	9 12 9				
1933	5 14 0 7 13 5	11 12 1 13 11 5	3 14 8 7 13 5	7 13 5 11 12 1				
1934 1935	5 14 0 3 14 8	11 12 1	3 14 8	7 13 5				
1936 1937	5 14 0	9 12 9 11 12 1	1 7 6 3 14 8	9 12 9 9 12 9				
	5 14 0	11 12 1	5 14 0	11 12 1				

These price quotations do not specify the variety nor the quality and as such are of very limited use. They, however support the contention that the present economic depression has had very little effect and that the existing prices are slightly higher than those prevail during the two pre-depression years, 1928 and 1929. In facturing the first years of the depression, 1930 and 1931, the prices were higher than those in the pre-depression year. The trend of prices is on the rise from 1936.





The following figures show the average annual prices realised by growers for inferior bidi tobaccos -

(Per maund)					
Year	Klakarı.	Galta	Khutas		
	Rs a F	Raar	Raar		
19°6	4 2 6	5 15 1	7 10 11		
19°7	5 0 5	7 3 2	7 10 9		
1928		5 14 10	9 12 10		
1979	3 7 2	5 7 2	6 9 4		
1930	182	4 1 10	4 8 5		
1931	2 1 9	4 1 10	5 5 11		
1932	2 1 9	4 3 6	4 11 3		
1933	2 11 7	3 12 0	5 2 4		
1934	3 0 6	ļ	5 11 11		
1935	2 0 11	4 7 0	3 9 0		
1936	2 5 0	4 15 0	3 13 0		
1937	2 12 6	5 14 0	4 9 6		

These prices indicate the same general trend as was observed in the case of Lal and Lalio tobaccos except for the more precipitate decline in the prices of Khakari in 1930

In general, there are six classes of bid tobacco recognised by the trade in the Charotar area viz Lal, Lilio, Galia Khutan, khakuri and Bandhan. The last term means bundle and Bandhan is always sold in leaf tied into bundles. The remaining classes represent powedered observed of the remaining classes represent the tobacco plant as well as from the ration erop. Khakari is the cheapest material Galia fetching a little better than Khakari Highest prices are realised for Lal and Lalvo, whereas better types of khutan fetch higher prices than the lower qualities of Lal and Lalvo.

The statements in Appendices XLII and XLIII and the diagram facing this page give the average monthly prices of Lal and Litto but tobaccos during the ten years 1926 to 1935. In the ease of Lal tobacco which is by far the most important class of bid tobacco accounting for a little more than two-thirds of the total production in this area the peak of monthly prices is generally reached in the month of January by which time the best LIICAR

qualities of tobacco are sold by the growers (see diagram facing page 127). There is a slight but progressive decline from Februm which continues till the end of May. June to October is a period low prices. By about the end of October the prices commence to rise till they reach the ansimum in January. The Lito tober which forms less than 4 per cent of the total production shows slightly different tendency of monthly variation of prices. It cases but, by reach price to the case but, by reach the mumber of transactions between June by January though the number of transactions between June to October are from and far between. The prices commence rising city in overber when the old stoels held over by substantial grower begin to be offered for vale and the rising trend continues till Januar From February to May the prices decline by about 3 to 5 per cent

(11) Nipani area—The prices of bidi tobacco (Hatpan and Jarda) at Nipani during the past 10 years were as below—

Year	Best qual ty	Medium quality	Poor qual tv
1927 28	Rs A P	Ra A P	Rs a l
	33 6 9	25 11 4	I8 0
1928 29	34 11 4	26 15 11	19 4
1929 30	35 15 11	26 15 11	18 0
1930 31	25 11 4	18 0 0	12 13
1931 32	23 2 3	18 0 0	12 13
1932 33	26 15 11		14 2
1933 34		23 2 3	12 13
1934 35	23 2 3	18 0 0	
1935 36	23 2 3	18 0 0	12 13
1936 37	25 11 4	18 0 0	15 6 l
	28 4 6	20 9 0	15 8 J

It is apparent that the prices continued to rise till 1929 \$^3\)
During the next year 1930 31 there was a sharp decline of about \$^6\)
to 33 per cent. There was a surther fail in 1931 32 to \$^6\)
and 104 30 per cent during the next year. The years 1933 \$^3\)
and 1934 35 again recorded low prices but from 1935 36 the tree!
Appears to be on the rise.

The prices secured in 1930 37 were the prices but from 1935 37 were the prices but from 1935 37 were the prices secured in 1930 37 were the prices but from 1930 37 were the prices

The statement in Appendix XLIV and the diagram facing page 127 show the annual average prices of different classes of bids tobard sold in the Sangli market in the Nipani area. Taking only the best

qualities into consideration the prices were as below during the last seven years

Prices of best quality bids tobacco in the Sangli market

,						
Year	Mirji powder	Pandharpuri powder	Other types of powder (Jarda)	Mirji lei f bund es (Pendis)		
	Rs A P	Ro A P	Rs A P	Rs. A P		
1930 31	9 2 10	17 9 10	19 13 6			
1931 39	988	22 6 2	14 10 11			
1932 33	15 0 9	22 19 1	16-8-3	11 0 2		
1933 34	13 3 5	16 14 1	18 5 7	8 12 11		
1934 35	13 15 2	18 5 7	18 5 7	8 12 11		
1935-36	11 0 2	18 5 7	16 8 3	11 0 2		
1936 37	12 13 6	16 8 3	18 5 7	11 0 2		

The Fandhai puri tobacco belongs to the Acoticna rustica species and is noted to contain a high percentage of nicotime. On account if high strength it fetches a high price among manufacturers of bidis who use it for blending with other classes of tobacco for making bidis of different strength. The demand is however limited for this class. The other classes belong to Acoticna Tabacum species. The Jarda tobacco which forms more than two thirds of the total production in the Vipani area fetches prices which are sometimes higher than those boltamed for Pandharpuri and its price level is always much higher than that of the best classes of Gujrati bidi tobaccos viz Loi and Lilio. Even the prices of Mirji tobacco which is one of the cheaper classes available in the Aipani area are higher than those of any of the six trade classes p douced in Gujrati.

The figures given above show that the prices in the Sangli marketentinued to rise from 1930-31 to 1932-33. In 1933-34 there was a sbarp fall in the case of Murji (both bundles and powder) and Pandharpiun as against a rise in the case of Jarda. In 1934-35 in prices of Murji powder and Fundharpiun recovered but those of Jardi and Murji bundles remained at the same level as in 1933-34. In 1935-36 the prices of Murji powder and Jarda declined while those of Fandharpiun bundles remained constant and of Murji rose. In 1936-37 the prices were generally higher than those in the previous year except in the case of Fandharpiun which recorded a fall.

With regard to the seasonal variation in prices it may be dated that at the commencement of the season in January the prices are better but afterwards there is a gradual downward trend till the end of May Afterwards on account of the advent of early

monsoon there are practically no transactions till about the end of October. The season opens again in November and, on the whole it appears, that the prices rule at a slightly higher level in November and December than during the months of April and May It may be, however, noted that the highe level of prices ruling in November and December is almost entirely due to improvement in the smoking equality of tobacco after some months' storage after harvest, as will be explained later in the chapter on 'Storage and stocks', and add ue to any uncrease in demand. The statements in Appendices XIV and XLIVI show the daily and weekly maximum and minimum prices of Jarda bids tobacco as extracted from merchants' books at Jayand pur in the Nipan area. The statement of daily prices shows that the daily maximum prices oscillate more than the minimum prices that very sudden rises or falls of prices from day to day are not common and that both the maximum and minimum prices shows a tradency of gradual decline from February to the end of April

(b) Baroda—The following are the average prices per maund o'

Jardo Rhuko (bidi powder) in Baroda during the past nine years -

10	Bhuho	(bid: powder)	n Baroda	during	the pas	t nı	ne	yea	rs
	Year				P	rine	per	maur	d
						Rs		P	
	1928 29					14	14	0	
	923 30					10	0	0	
	1930 31					9	8	0	
	1931 32					8	0	0	
	103 33					8	0	0	
	1933 34					9	12		
	1934 35	1				9	0	0	
	193a 36					9	12	0	
	1936 37					10	9	0	

It is evident that the prices declined from 1928 29 to 1932 33 ls 1933 34 there was a rise of 22 per cent. In the next year there was semall decline but from that year tiz, 1934 35 the trend appears to be again on the rise.

The following figures show the prices realised for Jardo Judi (bidi leaf in bundles) by three growers from a village in Barods State —

The prices of Jardo Judi realised by growers
(Per maund)

Ye r	Grower No I	Grower No II	Grower No III
1901 37 1632 33 1903 31 1,034 35 1995 36	Rs A r 12 0 0 11 4 0 10 12 0 12 0 0 13 4 0	Rs & r 10 0 0 10 4 0 9 8 0 12 8 0 11 8 0	Rs 4 7 10 0 0 10 8 0 10 8 0 13 4 0 11 8 0

It was reported that all the three growers produced the same carrety on the same type of soil and sold their produce practically at the same time and yet the prices realised by them were different from each other. The price realised by individual growers depends not only on the quality (which often varies in this area from field to field) and with the care taken in cultivation and preparation, but also on the personal factors of the individual growers and his ability to secure the full market price.

(c) Central Provinces and Berar—The Central Provinces and Berar is the most important province for manufacturing bids and imports large quantities of bid tobacco powder from the Charotar (Gujrat) and Nipani areas of the Bombay Presidency Before it is sold to manufacturers of bids, the tobacco undergoes considerable processing in the form of preparation of different quality mixtures based on colour and strength. The wholesale mereliants in the two Bombay areas have regular processing factories where the bid tobacco is sieved sorted and blended to form different quality mixtures. Each of these mixtures is given its own number which varies from one wholesale merchant to another. The prices of soir of these qualities which are designated by numbers at Gondia and important bids manufacturing centre in the Central Provinces were as below—

Prices of bidi tobacco mixtures at Gondia.
(Per manual)

Year	No 80	No 328	No 151	No 5°3	Akol
1931 1932 1933 1934 1935	Ps A P 26 0 0 29 5 0 27 0 0 23 4 0	Rs A P 30 0 0 37 5 0 33 11 0 36 4 0 31 0 0	Rs A E 18 0 0 16 0 0 70 0 0 22 4 0 16 0 0	Rs A P 26 4 0 24 8 0 21 0 0	1 s A. F 44 0 0 35 0 0 3° 0 0 34 4 0

(d) Nizam's Dominions—The annual average prices at Hyder abad of imported Vipani Pandharpun Mirh and Ahol varieties of bid: tobacco mixtures were as shown below —

(Price per maund)

Year	\ tobacco	Pandharpurs tobacco	Mirjs tobacco	Akol tobacco.
193° 33 1933-34 1934-35 1935-36	Rs A P 26 0 0 1 0 0 24 8 0 20 0 0	Rs A. b 22 0 0 17 0 0 20 0 0 16 0 0	Rs A. P 16 0 0 11 8 0 15 0 0 11 0 0	Rs A. F 12 10 0 7 12 0 11 8 0 7 11 0

The prices of 'vipani, Pandharpur, Mirji and Akol bidi powden from 1933 34 and uncreased in 1934 35 and again declined in 1935 26. The rise and fall in the prices per maind appear to have been about the same in all the four cases being higher proportionately over the cheaper type.

The statement in Appendix XLVII shows the monthly prices of locally grown tobaccos in H) derabad Decean It will be seen that the prices of the locally grown Jarda tobacco declined in 1932 33 as can pared to 1931 32 prices In 1933 34 there was a further decline but in 1934 35 there was a sharp recovery of over 30 per cent. The fluctuations in the prices of locally grown Desi tobacco showed the same tendencies. There are wide oscillations in the prices from our month to another. In the case of Desi tobacco the prices appear to be high in January and low in April and Way.

The statement in Appendix XLVIII gives weekly prices of different qualities of Jarda tobacco in Hyderabad (Dn.) during 1934 35

(4) Hookah TOBACCO

(a) Bengal—The following figures indicate the average annual prices of Jati and Wothhari varieties of hookah tobacco in North Bengal—

Xent	Price per maund	Percentage nue (+) or fal () over the preceding year
1927	Rs A P 18 12 9	ļ
1928	23 8 0	+25 3
19*9	27 9 11	+17 5
1930	14 3 7	⊸48 7
1931	8 1 4	-43 2
1932	998	+19 4
1933	12 8 7	+30 0
1934	9 8 2	-24 0
1935	775	_21 8
1936	8 0 5	+ 75

These prices refer to average quality Jati (Aicotana Tabacum) and Mothan; (Vicotana ristica) used mainly for hoolah, though the former is partly used for chewing and cheroot making. The prices thus rose upto 1929 but in 1930 there was a sudden drop and by 1931, the prices were less than one third the prices prevailing in 1929. By 1933, however there was a recovery of 50 per cent over

the 1931 prices but in 1934 and 1935, there was again a sharp fall In 1936, the prices recovered by about 8 per cent
The well known variety Motharn is almost entirely used for hooled and on account of its extractly is largely in demand all over

The well known variety Mothan is almost entirely used too hookah and on account of its strength is largely in demand all over Bengal Assam Bihar and other areas The following were the user age annual prices of Mothan hookah tobacco at Patgram in the Jahaneum district of North Reneyal.

Prices of Mothers tobacco at Pataram

Zear	Price per maund	Percentage rise (+) or fall (-) over previous vear
	Rs a p	
1998	31 5 4	1
199	18 10 8	-40 3
1930	16 5 4	-12 8
1931	16 1 4	15
1932	13 10 8	—14 S
1933	12 10 8	-73
1934	' 940	-29 1
1935	1 6 4 0	-33 4
1936	9 2 0	+57 0
1937	11 8 0	+26 0

There has thus been a sharp and continuous decline in press prevailing in 1928 to 1935 when the prices were only about a fifth of those prevailing in 1928. In 1936 there was a sudden recovery of 22 per cent and in 1937 the prices further rose by 26 per cent but attil remained far below the 1928 level.

The following were the prices realised for Motikari tobacco grown at the Burirhat Government Farm near Rangpur during the past 13 years

ears -				
	Year	Prices realised for Mothars tobacro		
		Ra a p.		
1924-25		10 0 0		
1925 °6		14 0 0		
1926-27		12 0 0		
1927 28		20 0 0		
1928 29		Crop failed		
1929 30		19 0 0		
1930 31		500		
1931-32		' 800		
1939 33		10 0 0		
1933 34		9 0 0		
1934-35		No sales		
1935-36		11 8 0		
1936-37		^ o s₄les		

It will be seen that there is considerable difference between these prices and those obtaining at Patgram given in the previous table. This is due to differences in quality of the produce sold at the two places but it is impossible to explain the extent of variation in prices due to quality differences in the absence of any specific definition of quality of the produce sold from year to year

It appears however that the prices realised at Burirhat (Rang pur) were on the whole lower than those prevailing at Patgram it least till the year 1933 In 1930 31, the prices at Burirhat suddeil, dropped down to Rs 5 per maund from Rs 12 per maund in 1929 37 At Patgram the sharp decline in prices was noticed earlier, se m 1929 In 1935 36, the prices at Burirhat recovered to Rs 1180 per maund and compared better with Rs 920 per maund prevailing at Patgram in 1936

The Bishpat (sand leaves) of both the Jati and Motihari is also used for making hookah of mild strength a small quantity being also purchased by cigarette manufacturers for manufacturing cheap cigarettes. The annual average prices of Bishpat leaf at Mahanga in Cooch Behar State during the past 59 cers were as below.

Prices of Bishpat leaf at Matha Bhanga

Year	Price per mauno
1933	Ps a p
1934	280
193a	2 0 0
1936	100
1937	200
_	3 1, 0

The trend of prices of Bishpat is thus on the rise during the bast two years

The statement in Appendices XLIX and L show the average monthly who less he prices of Motharn at Patgram and Jair prevailing in the (o o h Behar State The Gooch Behar State Gazette pull lishes fortine bitly prices of tobacco for the several markets within the sit mits not the statement in Appendix L shows the prices as averaged from quotations published for eighteen markets. These statements show that the monthly prices commence declining by ab it februars when the prospects of the new crop are known and during the northing period of the fresh crop Aryll to July rule low (see the night complete size of the new crop are known and during the nature of the prices usually commence rising till they reach the maximum during the months of December and January.

(b) Bikar—The statement in Appendix LI gives the average annual harvest prices during the past 25 years as officially recorded in the Season and Grop Reports of the province in the thremost important believe producing districts Muzaffaipur Darbhanga and Purner which "gether account for over four fifths of the tobace area in Bihar and Orissa. The varieties and qualities for which the prices have been recorded are not specified, but it may be generally stated that the prices in Muzzaffarpur refer to Desi (N. Tabacum), those in Darbhanga relate to a mixture of Desi and Vidugati (N. Tatacum), tristica) while the Purnea distinct prices refer almost entirely to Vidugati (N. rustica) which is mostly used as hookah. The Desi tobucco is used partly for chewing and partly for hookah.

The long period averages of the prices prevailing in the three districts indicate the following position --

Average prices in Muzzaffarpur, Darbhanga and Purnea districts (Permiuni)

Period	Vuzzaffarpur	Dharbhanga	Purnea
1912 14 1914 15 to 1918 19 1919 20 to 1922 24 1924 25 to 1929 30 1935 37 1935 37	Rs & P 18 3 0 19 10 0 32 12 0 16 11 0 13 10 0 15 2 0	Re s p 8 10 0 9 13 0 13 7 0 14 0 0 9 13 0 11 11 0	Rs a p 8 8 0 6 5 0 8 13 0 11 7 0 5 11 0 3 14 0

It is apparent that in Muzzaffarpur highest prices were obtained during the post war period 1919 to 1923. Since when there has been a fall. During the 5 years ending 1934 the average prices were about 27 per cent lower as compared with the quinquennial average ending 1929. Durbhanga and Purnea recorded highest prices during the pre-depression quinquennium 1924—29. During the five veats ending 1934 the prices in Darbhanga and Purnea fell by about 30 per cent and 50 per cent respectively. In 1935-36 the prices rose in Muzzaffarpur and Darbhanga but recorded a fall in Purnea.

(c) United Provinces.—The following figures show the annual werage prices in the Luchnow market of the different varieties of hold at lobace grown in the provinces

Annual average prices at Jucknow
(Per maund)

Year	Kampilla	Den	Desi
	(Parrukhabad)	(Biswan)	(Bahraich)
1930 21 1931 22 1932 23 1932 34 1932 34 1934 35 1935-36	Rs a p 8 8 8 10 10 10 11 15 4 9 2 11 8 15 6 9 13 2	Rs a p 7 J4 5 8 8 8 8 2 0 7 4 0 11 2 0 9 6 3	Rs a p 7 4 0 8 2 0 6 0 0 6 6 6 6 10 0 8 2 0

These figures do not indicate any definite trend The prices of Kampilla ranged from Rs 888 to Rs 11154 per maund, while those of Desi varied between Rs 6 to Rs 11-20 during the period In 1935 36 the level of prices was generally higher than in the previous two years

The following were the prices of Vilayat: tobacco imported from Bihar at Lucknow -

Prices of imported Vilayati tobacco at Lucknow (Per maund)

(Per maund)		
Year	Prices	
1930 31	Raap	
1931 32	5 2 0	
1932 33	6 6 6	
1933 34	5 9 0	
1934 35	600	
1935 36	6 13 3	
	6 0 0	
The annual areas		

The annual average prices of Farrukhabadi tobacco in the important markets were as below —

(Per maund)

Year	Cawnpore	Lucknow	Jhansı
1931 32	Rs a p	Rsap	Raap
932 33	10 8 0	9 12 0	11 0 0
933 34	10 0 0	11 12 0	12 0 0
934 35	9 8 0	9 12 0	10 0 0
	10 0 0	10 8 0	11 0 0

The prices of hookah tobacco are determined by the amount of pungency and strength present in the tobacco. For this reason the type of tobacco grown in places where well water or the soil has large quantities of available nitrates apparently commands a better price Thus it is reported that the tobacco grown at Kampil (Farrukhabad district) is very pungent and strong and fetches a much higher price than the same variety (Calcuttia) grown in other villages of the same district

Prices of Calcuttia tobacco produced in Kampil and other places in Farrillaghad district

(Per maund)

Year	Kampil	Other places
1932	Rs 9 to Rs 15	Rs 5 to Rs 7
1933	Rs 8 8 to Rs 18 8	Rs 3 8 to Rs 7 4
1934	Rs 7 to Rs 15	Rs 3 8 to Rs 7 14
1935	Rs 8 to Rs. 16 8	Rs 4 to Rs 8 8

Another example of price variation due to pungency and strength may be taken from Jaunpur where it is reported that the well water is brackish and ample supply of intrates is available in the form of lone mitt. (Sait Petre) on account of Jaunpur being an old city. In 1935 for instance, the prices of Calcuttia tobacco produced in certain fields fetched from Rs. 24 to Rs. 26 per mand. Tobacco produced in other fields fetched Rs. 15 to Rs. 16 per mand while there were fields the produce of which could be sold only at Rs. 4 to Rs. 6 per mand.

The statements in Appendices LII and LIII give the average monthly wholesale prices prevailing at Campore during the past seven years for the Farrukhabadi Kampilla and Dest tobaccos imported from Bachhor Dyer and Saresh in Bihar

(d) Punjab -- The annual average harvest prices of hoolah tobacco produced in the Punjab during the past 8 years were as follows --

Year	Price per maund	Index number
1929 30 1930 31 1931 32 1932 33 1933 34 1933 35 1933 36 1933 36	Rs a p 10 0 0 7 3 0 6 15 0 5 15 0 6 14 0 6 7 0	100 79 69 59 59 69 64

During this period the prices were highest in 1929 30. Subse quently there was a downward trend till in 1932-33, when the prices reached the lowest level of Rs. 515.0 per maund. In 1933 34, they remained stationary but in 1934 35 recovered and rose to Rs. 6140 per maund. In 1935 36, there was again a slight decline and the price remained at the same level in 1936 37.

The average harvest prices of the two main varieties, Gobhi (Micotiana Rustica) and Desi (Nicotiana Tabacum) grown in the chief tobacco producing districts of the province were as below

(Per maund)

	(F	er maund)		
Year	Attock (Gobhs)	Hoshiarpur (Gobbs)	Jullundur (Dess)	Ludhiana (Den)
1930 31 1931 32	Rs a p	Rs a p 4 2 0	Rs a p 5 11 0	Rs a p 5 11 0
1932 33 1933 34	2 15 0 5 11 0	3 13 0 2 11 0	5 5 0	4 0 0
1934 35 1935 36	4 8 0 5 0 0	3 4 0	5 0 0	2 14 0 3 10 0
1936 37	7 0 0 6 0 0	3 0 0	5 8 0	3 10 0

It will be observed that the Gobh; tobacco grown in Attock sells on an average about Rs 140 per maund dearer than that grown in Hoshiarpur This is said to be due to the greater suitability of soil letter quality in a Attock district which turn out tobacco of the grown for the higher prices realised for Desi tobacco grown in Juliander than that produced in Ludhiana

The statement in Appendix LIV gives the average monthly wholesule prices at Ferozepur and Lyalipur A consideration of monthly prices indicates that on the whole the price are at their lowest in August and September and low during the fact that two months October and Nember ember This is due to the fact that the arrivals of new tobacco group in large quantities subsequent curs in August September and in fair amounts in the generality of the curs in August September and in fair amounts in the June and monteness in Juli, the period being the tail end of the valling a ferozepur (except from September 1934 to June 1935 to March 1937) the process of the property of the process o

(5) CHEWING TOBACCO

(a) Bengal—The best middle leaves of Jat; and Motihari, with orange brown colour, thick texture and pungent tasts are used for thewing These leaves are locally known as Panapat or Bhog or Mul.i.how The prices of Panapat leaves at Matha Bhanga market during the past 5 years were as below—

Price of Panapat

mg the hase	o years nere as deron	Price of Panp
Year		per maund
		Rs
1933	•	20
1934		17
1935		10
1936		17
1937		24

The prices thus declined till 1935, but in 1936 there was sudden jump of 70 per cent. In 1937, there was a further rise of about 41 per cent. and the prices realised were the highest since 1933

(b) Bihar—The Dest tobacco grown in North Bihar is very largely used for chewing particularly the middle leaves (Unrhan), bottom leaves (Chhabha) and leaves of rationed crop which are called Danji The statement in Appendix IV shows the average monthly wholesale prices of these three classes, of leaves at Barh in North Bihar During the months of October and March the prices during the past 5 years were as below —

(Per maund)

		Murhan	Chhabua	Donyı
		Rsap	Rs a p	Rs a p
í	1931	15 0 0	5 12 0	2 4 0
1	1932	11 0 0	3 8 0	0 14 0
October	1933	700	2 4 0	0 8 0
	1934	10 0 0	4 4 0	2 0 0
	1935	13 0 0	4 8 0	0 14 0
Percentag	e fall October 1931 to 1935	13%	22%	61%
	1932	1100	5 0 0	1 6 0
	1933	980	2 12 0	0 11 0
March	1934	5 12 0	2 4 0	0 10 6
	193a	1100	3 12 0	1 2 0
	1936	700	3 12 0	0 12 0
Percentag	ge fall, March 1932 to 1936	36%	25%	45%

It is evident that the prices do not indicate any definite trend, but in 1935 36 they were considerably lower than in 1931 32. It is significant to note that prices in March when fresh crop arrives in the market in large quantities are lower than those prevailing in October, the average difference during the period of five years being 21 per cent for Murhan, 13 per cent for Chhabua and 30 per cent in the case of Donji

(c) Madras—The following were the average prices of Meenampalayam chewing tobacco at Satyamangalam in Combatore district during the past five years—

Prices of Meenampalayam tobacco
(Per maund)

	 First Quality	Second Quality
	Rsap	Raap
ly 1933	41 3 0	21 6 0
1934	42 10 0	23 0 0
. 1935	50 15 0	
, 1936	1	26 5 0
., 1937	42 10 0	21 6 0
	46 10 0	24 10 0

The description of the first and second qualities is neither defined nor specific and as such the first or second qualities of one year or month are usually not the same as the first or second qualities of another jear or month I taking into consideration the general trend it is obvious that the prices rose from 1933 to 1935 by about 23 per cent in the case of both the qualities. In 1936 there was a sudden drop but in 1937 there was again a recovery.

The statement in Appendix LVI shows the monthly wholesale prices of Meenampalayam and Udumalpet chewing tobacco in Palghat market during the past seven years. These monthly prices indicate that bounth to month variation is small and that the prices are usually most during the month of April when the fresh crop arrivers in the market in large quantities. The usual harvesting period is during representation of the market from March 1 Max. The best quality produce is sold off during this period and its for this reason that the prices slowly drop down as the season advances till they reach their lowest level some time in the month of February.

(d) United Provinces—The Dess tobacco grown round Biswan in Sitapur district is considered particularly suitable for chewing.

though it is also used to some extent for hoolah. The average annual wholesale prices of Desi tobacco at Biswan were as follows.—

trice per mauna			
Year	Minimum	Maximum.	
	Rs a p.	Rз в р.	
1929	7 6 6	19 0 0	
1930	4 14 6	18 8 0	
1931	5 14 9	17 0 0	
1932	5 14 9	11 13 6	
1933	5 14 9	11 13 6	
1934	4 7 0	14 13 0	
1935	1 180	14 13 0	

The minimum price was extremely low in 1933 because a large part of the crop was spoilt in that year by hail and frost. The maximum prices declined from 1931 till they reached a stationary point in 1932 and 1933. In 1934 there was a recovery of 25 per cent and the prices remained at the same level in 1933.

The prices of chewing tobacco of different qualities imported from Bihar at Lucknow market are given below. The leaf is of the Desi variety grown in North Bihar and called Poorbs in the markets of the United Provinces.—

Annual average prices of chewing tobacco imported from Bihar at Lucknow

(Per maund) Hucken Chhahun Duys (Donys) Year (Middle leaves) (Bottom leaves) (Ratoon crop) Rap Raap 1930-31 3 15 2 1931 32 10 0 0 193° 33 3 12 0 1933-34 I934-35 12 8 0 6 9 1935-36 13 2 0 500 9 2 9 1936-37 289

The sudden drop in 1933-31 is apparent. In 1934-35, the prices of Murhan recovered by 50 per cent. while those of Chhabua and Dun also increased substantially. There was a further rise in 1935-35 in the case of Murhan but in 1936-37, the prices of all the three qualities declined considerably.

(e) Mysore—The annual average wholesale prices of chewing tobacco at Sira an important centre for chewing tobacco in Mysore State were as follows —

T T	ear	Price per	maund.	Percentage change.
~		Rs.		
1933		91	1 0	
1934		11 :	8 0	+19%
1935		10	3 0	-11°°
1936		9	6 0	5°0

There has thus been a slight decline in prices from 1933 34 to

(6) SYUFF TOBACCO

(a) Madras —The prices of best quality Mustadabad (Kistna district) smuff tobacco at Madras during the past three years were as below —

Price per maund
Rs a P
34 0 0
37 8 0
34 0 0

The statement in Appendix LVII gives the are at monthly process of smill tobacco at Mangalore during the 5 years 1932 33 to 1936 37 the figures indicate continuous decline in price and in 1936 37 they were only about two thirds of those ruling in 1932 33 It is also evident from the statement that month to month variation in prices is small being less than a rupee per mund

(b) North West Frontier Province—In the Peshawir market of the N W F P which is noted for the production of soulf tobacco the prices of the famous \(\lambda \) \(\sigma \)

(c) Mysore —In Mysore the following were the average annual wholesale prices of spuff tobacco at Rayandur —

	Year		Price per maund	Percentage change			
			Rs a P	!			
1931		ŀ	21 12 0	I			
1932			20 6 0	€°			
1933			00 Ip 0	±11° ₀			
1934		`	21 4 0	— 7°°			
1935			16 11 0	-°1°0			
1936			8 11 0	-48°°			

It is seen from these figures that the prices have declined to a considerable extent during the three vears 1934 to 1936. In fact there has been a continuous fall during the five year period except in 1933 when there was a elight rise. Enquiries have shown that this fall in prices is very largely due to decline in demand for sunf. The statement in Appendix LVIII and the diagram facing page 126 show the average monthly prices of Pindi tobacco at Rayandur in Miysor. State I multiple to every largely used in the preparation of snuff and to some extent in manufacturing high class both. These lighters independ the prices generally tend to be on a higher level during the first half of the year 1e, January to June, than in the second half. It is significant to note that fresh crop is available in the market also in the first half of the year. The statement full of which we work that the prices of snuff tobacco have been more or less continually on the decline during the last ten years, except during 1927–1930 and 1933.

C -Farm prices of green uncured leaf

Although the system of selling standing erop is followed to a certain extent in certain areas as will be explained later in the Chapter on Assembling the practice of selling green leaf is almost entirely confined to eigarette tobacco leaf grown in the Guntur and Mysore areas In the Guntur district the system of selling green leaf is followed only in the case of Virginia tobacco and adopted by extremely few smal growers who are in need of cash at the time of harvest The prices of green leaf in the Guntur area in 1934 35 and 1935 36 ranged from Rs 15 to Rs 20 per candy of 500 lb Green leaf is sometimes sold on in acre basis the system being more commonly practised when the prices are high In 1934 35 the prices of such sales ranged from Rs 60 to Rs 140 per acre depending on the condition of the crop and the quality of the green leaf produced In 1937 38 the prices of green leaf were high and averaged about Rs 150 to Rs 200 per acre in the Guntur area. The proportion of the crop sold in green condition is however extremely small specially when the prices of cured leaf show a rising tendency. It is estimated that not more than I per cent of the total Virginia crop in the Guntur area is sold in green condition. In the Mysore area the Mysore Tobacco Company Limited organised in 1937 for the develop ment of production and trade in Virginia cigarette tobacco operates enurely by purchasing green leaf from the growers In 1937 the company paid to the growers an average price ranging from 4 to 5 ples per pound of green leaf Before 1937 the Mysore Government used to purchase green leaf from the growers and the average prices paid for such purchases were 5 3 pies and 4 5 pies per pound in 1935 and 1936 respectively Sometimes in the Mysore area chewing tobacco is also sold in a green state The prices of such sales ranged from Rs 10 to Rs 20 per 1 000 green plants during 1934-36 The practice of selling green leaf of indigenous varieties of tobacco appears to be more common in the southern tobacco areas of the State practically in the Hudson Penyapatna and Krishnarajanagar talukas and is reported to be spreading in the northern tobacco area also namely n Tumbur Chitaldurg and Kolar districts during the past

D-Price differences between old and new stocks

The price of any lot of tobacco new or old is the resultant of the interaction of several factors which are not measurable under the existing conditions of tobacco trade in India As such it is difficult to assess definitely the price variation between old and new stocks of tobacco. As will be explained later in the chapter on "Storage and Stocks", it is generally acknowledged that tobacco metended for indigenous types of consumption, like bidl, hookah, chewing, snuff, etc, improves in quality after about six months' storage. Similarly, tobacco intended for organs and cheroots improves in smoking quality after about twelve months' storage, while that used in the manufacture of caparettes is considered to be best for manufacture after keping it in store for about two years

It may be generally stated that in the case of bidi, hookah, chewing and snuff tobaccos which are well stored for about six to twelve months after harvest, a premium ranging from 10 to 20 per cent is obtained. The new crop is available on the market during the three or four months before the commencement of the monsoon in June and the general practice is to store tobacco at least over the rainy season before using it in the manufacture of tobacco products Extremely few growers store their tobacco for ageing in expectation of better prices, but in the case of those few who have good accom modation and store the whole or part of their crop for some mouths it is noticed that the prices improve after about 6 months' storage In 1930 a grower from \impaon in the Central Provinces sold part of his tobacco at Rs 21 60 per maund immediately after harvest while the remaining portion was sold by him at Rs 25 100 per maund after 6 months' storage In the United Provinces the price difference between fresh leaf and leaf which is old by 6 months or more is anything between 5 to 25 per cent. In Bengal and Assam, the Jati and Motihari tobaccos fetch a premium of Rs. 2 to Rs. 2 8 0 per maund after they are 6 months old In the Gujerat, Nipani and Hyderabad areas, the bids tobacco stored by the growers for 6 months or more fetches a premium of Re 1 to Rs 2 per maund may be, however noted that these high prices realised after storage for some months are almost entirely due to improvement in the smokme qualities of the stored product and not to any improvement in demand

No premium is paid for stored tobacco unless the stocks are well preserved and has e a good strong aroma. If the tobacco is more than a year old the quality deteriorates and it can then be sold with some difficulty at lower prices. In the case of inferior qualitries like the Bishpat of Bengal and hookah tobacco dust, there is hardly any difference between the prices of old and new stocks. In fact it so discreted that in all types of tobacco superior qualities kep better and for a longer period during storage than inferior qualities. The best Merampaluam chewing tobacco for instance, could be kept without deterioration for about 18 months as against only about 6 months, in the case of inferior quality even under proper conditions of storage. Storing of cigarette tobacco for ageing is done under controlled conditions by the manufacturers temselves and as such old stocks of cigarette tobacco stored are rarely available on the open market in India.

In the case of Burmese eight and cheroot tobacco, one year old stocks normally fetch a premium of about Rs 240 to Rs 350 per maind for the first quality and about Rs 120 per maind for the second quality

E -Price range for the same quality .

In the absence of definite grades and standards prices vary from one merchant to another on the same day and for the same type and quality of tobacco. The prices secured by the growers in any area are not therefore uniform though they sell the same type and quality in the same market and on the same day. Enquiries made at the several markets indicate that the price secured by any particular grower on any particular day depends on the quality of his produce his credit position in relation to the village merchant or middleman the quantity of tobacco he can offer for sale the general economic standing of the buyer and the extent of help the general economic standing of the buyer and the extent of help the general economic standing of the buyer and the extent of help the general gradient of the price of a buyer who has got a reputation for prompt payment and for causing the least number of disputes regarding quality at the time of delivery of produce Barganing strength capacity to hold over produce and the extent of competition among the buyers at any given time and place also result in variation in the prices secured for the same quality produce in the same market and at the same time.

Absence of comparable standards makes it extremely difficult to ascertiam definitely the price range of tobacco of the same type and quality. Enquiries in Bengal and Assam showed that the price range in a sungle market for Mothard tobacco of a given quality du not exceed in rupee per mained and usually it was much narrowed in the case of Jats tobacco however the maximum range observed was Rs. 5 per mained. In the Central Provinces the imported but tobacco price range observed was concentione as high as Rs. 5 and occasionally even up to Rs. 10 per mained on a single day the exact difference depending upon the kind of sale transacted whether each or cre lit and the amount of tobacco sold at 1 time. In Madrast the range on a single day is reported to be up to Rs. 6 per mained mather case of Virginia flue circular cleanarity. Bright and in the case of Virginia flue circular cleanarity to Rs. 12 per mained and prices noted on a single day in February 1935 tarried from Rs. 2120 to Rs. 5 per local mained of 48 to of Lat Joid tobacco. In Bibar and other areas the range generally does not exceed a ruper mained.

F -Comparison of prices of different types

It would be of interest to compare the average prices of different types of raw tobacco as obtained by the growers in the principal producine areas. Such comparative pince data are not easily obtained by the following figures secured during the course of marketing enquiries indicate in a rough manner the variations in the prices of different types in 1935 36.

Comparative growers' prices of different types in 1935-36

Comparative growers' prices of different types in	1935-36
India-	Per maund
	Rs A. P
Cigarette—Virginia flue cured (Guntur)	25 0 0
Cigarette—Virginia flue cured (Bangalore)	25 10 0
Cigarette—Natu (country) sun cured (Guntur)	7 0 0
Cigar—(Dindigul)	13 13 0
Cigarfillers (Trichinopoly)	10 4 0
Chercot—Bheng: (Rangpur)	8 13 0
Cheroot-Jats (Rangpur)	10 0 0
Etds-Lal (Charotar)	10 8 0
Bidi-Liloo (Charotar)	10 12 6
Bidi-Jarda Bhuko (Baroda)	9 12 0
Bidi-Hatpan and Jarda (Nipani)	19 11 0
Bidi—Jarda (Sangli)	I6 8 3
Hookah-Jats and Motshars (North Bengal)	8 0 0
Hookah Mot hars ((Patgram Bengal)	9 2 0
Hookah-Desi (Muzaffarpur)	13 11 0
Hookah-Dess (Darbhanga)	9 11 0
Hookah-Vilayati (Purnea)	3 0 0
Hool ah-Kampilla (Lucknow)	9 13 0
Hookah—Dest B suan (Lucknow)	9 6 0
Hookah-Dest Bahraich (Lucknow)	820
Hookah—Gobh: (Attock)	7 0 0
Hookah—Dest (Jullundur)	580
Chewing—Panajat or best middle leaves of Jati and Motihari (Matha Bhanga)	17 0 0
Cheuing— Mee ampalayam (Satyamangalam-Coimbatore)—	
1st quality	42 10 0
2nd qual ty	21 6 0
Chewing-(Sira Mysore)	9 6 0
Burma—	
Cheroot—Shwegym (Rangoon)	8 15 0
Cheroot—Hee g.j. 1 u.e. Yaung (Mymgyan)	10 14 0

It is thus obvious 'l it the highest pieces are realised for some of the special chewing tobaccos sold in South India Apart from the imported eigarette and cigar levif from Duroje and America the Unfine chewing tobaccos imported from Cevlon into Travancore sell at a still higher piece which may range to anything between 18; 40 to Rs. 50 per naud. Vinginia fluctured leaf fetched about Rs. 25 jer main I though in 1938 the pieces ranged above Rs. 40 per via ind. Noan and Saugh bidi tobacco pieces come next in importunce to the pieces of fluctured cigarette leaf. It appears that

the prices of these two kinds of bids tobacco are over 7a per cent higher than the prices of Gujerati bids tobaccos. The eigra and cheroot tobaccos from the Maddras Presidency fetch lugher prices than those produced in Bengal Among the hookah tobaccos the Desi leaf from Micaslarpur in North Bihar appears to fetch the highest price though it may be noted that this type of leaf has also a demand for chewing purposes. The Videyats tobacco grown in the Purnea district of North Bihar appears to be selling at the lowest price among all types of tobacco. The prices of the hookah tobacco produced in the Punjab are also the lowest among all the types except that of Purnea already referred to

G-Fixation of buying rates

In giving his offer the buyer takes into consideration the quality of the produce offered for sale the amount of production of the type of tobacco required by him and also the probable demand taking into account the competition from substitutes and the price for similar types in other localities as well as the stocks of tobacco held in the chief assembling and distributing centres. The reputation of a particular village or specific holding for producing leaf of better quality also receives consideration in making an offer

Before making an offer for a particular lot of tobacco the buyer examines the quality by looking at the colour size and substance maturity and dryness of leaf feeling its texture with his fingers He then tests its strength in the case of indigenous types tobacco by breaking the leaf powdering it between the palms of his hand for smelling the aroma and then by actually smoking or chewing the tobacco The sample for testing is usually drawn from the middle or bottom of the heap and examined first for admixture of sand stalks stems perished diseased and insect attacked leaf. By rubbing the leaf between the palms sand is loosened and separated after which further tests regarding strength mentioned above are carried After these tests are over the purchaser makes an offer which if immediately accepted the bargain is settled. If not considerable haggling goes on till the buyer and seller arrive at an agreement Commission agents often acting on behalf of the buvers usually help the buyers in examining the quality of a lot offered for sale and in fixing the price. Whenever the buyer cannot personally inspect the quality of the lot offered for sale he may either entirely depend on his agent or representative or may get samples and quota tions from a number of commission agents to serve him as a guide in maling an offer of price. But the extent of sale by sample is extremely small and the judging of the quality of a consignment by actual examination either of the sample drawn from bull or of the whole consignment is almost the universal practice followed in the tobacco trade. In the Guntur district of Madras Presidency the Indian Leaf Tobacco Development Co Ltd enters into contract with growers of eigarette tobacco to buy leaf of different grades at prices specified in the contract. The growers are given instructions in grading but at the time of delivery the company's officials inspect each bale brought in by the growers before fixing the final price

It 13 therefore obvious that the present declared values of exports of numanufactured tobacco are about 5 times the pre war average values Similarly, the value per lb of exported cigars is over 57 per cent higher than that prevailing during the pre war period

In view of the increasing importance of exports of unmann factured tobacco at would be interesting to discuss further the export values of unmanufactured tobacco exported from the ports of different provincess and to the important countries that consume Indian tobaccos. The following figures show the annual average values of unmanufactured tobacco exported from the ports of different Indian Provinces and Burna.

Average annual declared values of exports of unmanufactured tobacco

(Per fb)								
	Exported from the ports of							
Year	Bengal.	Eombay	Madras	Burma				
	Ps A P	PSAP	Psar	Psap				
1925 26	0 2 4	079	0 5 8	036				
19°6 27	0 2 10	0 7 10	0 5 10	0 3 10				
1977 28	0 4 5	080	0 5 5	0 4 1				
1938 29	0 5 3	066	0 6 4	0 4 6				
1979 30	0 5 2	079	0 6 2	0 5 3				
1939 31	0 2 2	079	0 5 11	040				
1931 32	039	0 5 11	0 5 9	0 2 7				
1937 73	0 3 9	10 د 0	0 6 1	0 3 10				
1933 34	0 3 8	0 5 10	0 5 0	0 2 10				
1934 3,	0 1 9	0 5 10	0 5 0	0 2 2				
1935 36	018	0 4 10	0 . 1	0 2 11				
19°6 37	0 4 2	0 3 11	0 5 4	0 4 10				

for Madras Re 0 t 3 for Bombay and Re 0 3 1 for Burma It is thus obvious that during the ten years ending 1934 35 the value per lb of exports from Bombay was the highest. As noted earlier in the supply chapter the exports from Bombay consist almost entirely of lide and smoke g tobaccos while those from Madras are largely of cigarette pipe and cigar tobaccos Exports from Bengal are largely of cheroot tobacco and Bishpat (sand leaves) used for cheap ci, arettes and cigars Exports from Burma are of cheroot tobaccos In 1930 31 the first year of the trade depression there was sharp fall in the average value of exports except in the case of exports from Bombay The decline was more precipitate in Bengal and Burma In 1931 32 there was an improvement in Bengal but decline in values in all the other three areas. From this year aver age values of exports from Bombay appear to be on a continuous decline and in 1936 37 were the lowest among all the Indian pro vinces and Burma The average values of exports from Madras have been more constant and ranged from a to 6 annas per lb during the past 12 years In 1936 37 there was a decided improvement in the values in Bengal Madras and Burma but a sharp fall in Bombay

The following figures show the average values of exports to principal countries $-\!\!\!\!-$

Average annual declared values of exports of unmanufactured tobacco

		Exported to			
Year	United King	Aden and De pendenc es	Japan	Setherlands	
	Rs a P	Rs a P	Rs A P	Rs A P	
19°5 26 19 6 27 19° °8 10° 3° 9 10° 9 30 19° 9 30 19° 31 19° 31 19° 32 19° 33 19° 33 19° 35 19° 36 19° 36 19° 36	0 5 8 0 6 0 0 0 0 3 3 0 6 5 0 6 5 0 6 1 0 6 5 0 5 8 0 5 8 0 5 1 0 6 6 1 0 6 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 6 9 0 0 0 6 9 0 0 0 6 9 0 0 0 6 9 0 0 0 0	0 7 9 0 7 10 0 8 0 0 6 6 0 9 0 5 0 9 0 10 0 4 0 0 3 11	0 4 1 0 7 0 0 5 10 0 6 4 0 3 10 0 4 16 0 4 16 0 3 0 0 3 1 0 3 1	0 3 3 0 2 10 0 0 3 0 3 0 3 0 1 0 0 0 0 0 0 0 0 0	

The average value per lb of exports to Aden were the highed in 1927-28 followed by Japan the United Kingdom and Netherlands It is interesting to note that the average values of exports from Bombay to Aden exacth talls with each other except during 1930-32 in 1931-32 and 1932-33 where small differences are observed. This is because almost all the exports from Bombay go to Aden and Dependences which take Indian tobacco almost entirely from

Bombay as already noted earlier in the supply chapter. The aver age values per lb during the 5 years 1925 26 to 1929 30 were Re 0511 in case of exports both to the United Kingdom and Japan Re 077 for exports to Aden and Dependencies and Re 031 for exports to \etherlands During the quinquennium ending 1934 35 the position of average values per lb was Re 060 for the United Kingdom Re 0-48 for Japan Re 0 6 1 for Aden and Dependences and Re 024 for Netherlands The trend of average values of exports to the United Kingdom appears to be on the rise the peak periods having been reached in 1928 29 and 1932 33 In 1933 34 there was a decline but from 1934-35 there has been an improve ment except for a small fall in 1936 37 The export values to Japan show a definite downward trend particularly from 1929 30 From 1934 35 the unit values have been slightly more than half those prevailing during the pre depression period. Trade with Aden and Del endencies also indicates a downward trend in values from 1930 31 nl m 1936 37 the export value was only about half the average export value per lb prevailing during the quinquennium ending 1)2 30 The alues of exports to Netherlands have been irregular though from 1934 35 the trend appears to be on the

(2) IMPORT VALUES

Unmanufacture I tobacco and eigarettes account for about 97 per cent of the total 111 ort. The following figures show the annui average declared values of unmanufactured tobacco and eigarettes imported into India and Burma by sea from foreign countries.

lieraje annial declared values of imports of unmanufactured

tobacco and cigarett	es	
Period	(Per lb)	
renog	Unmanufactured tobacco	Cigarettes
Pre war average	Rs A P	Rs A P
1925 26	0 9 7	309
1926 2	0 11 0	4 10 5
1927 28	0 11 7	4 10 7
1928 29	0 12 10	4 4 7
1929 30	0 13 7	0 4 11
	0 13 11	406
1925 26 to 1929 30 average	0 12 7	4 4 10
1930 31	0 14 4	4 0 0
1931 32	1 0 9	3 10 10
1932 33		3 3 7
1933 34		3 3 5
1934 35	1 2 1	•
1930 31 to 1931 35 average	1 2 0	-
	1 1 11	3 8 9
1935 36	1 7 2	3 6 1
1936 37	1 5 10	2 - 0

As noted earlier over 95 per cent of the unmanufactured tobacco imported is of the Virginian digarette type obtained from the United States of America and the United Kingdom It is clear that the trend of the value per lb of the imported leaf is on the rise pre war average value was Re 097 per lb which rose to Re 0127 per 1b during the pre depression period, an increase of over 31 per cent During the depression period of 5 years ending 1934 35, the average value rose still higher to Rs 1111 a rise of over 42 per cent over the previous quinquennium During 1935 36 the value per lb of imported leaf rose still further and is believed to be the highest on record during recent years. This rise in values may be explained by taking into consideration two factors tir the prices of flue cured Virginia leaf in the United States and changes from year to vear in the quality of imported tobacco leaf. The average annual farm prices of flue cured leaf in the United States from 1925 to 1937 were as below -

 F_0

arm prices of flue-cured typ	es in the United States of Amer ca
Year	Cents per 1b
192a	200
1926	74.9
1927	20 5
1925	173
1929	180
1930	120
1931	84
1932	11 6
1933	103
1934	27 3
193a	20 0
1936	22 1
1937	23 1

The range of prices between 1925 to 1929 was thus higher than that prevailing during the next five years 1930 to 1934 which is exactly reverse to the differences observed in the export values pre vailing during the two quinquenniums. There is no information available to indicate the year to year variations in the quality of imported leaf, but it is apparent that the increase in the unit value of imports during the past 12 years is almost entirely due to the increase in the imports of superior quality American leaf and decline in the imports of inferior qualities. This is also supported by the fact that during recent years larger quantities of Indian grown cigarette leaf which is still considered to be inferior in quality as compared to the best imported American leaf, are being used in the manufacture of medium and low grade cigarettes

semination of market information takes place through different channels, namely -

(1) GOVERNMENT PUBLICATIONS

The method of collecting price data adopted by the provincial Governments has been described in the Report on the Marketing of Wheat in India (page 109) So far as tobacco is concerned, the Indian Trade Journal published every Thursday by the Depart ment of Commercial Intelligence and Statistics of the Government of India gives monthly prices of unmanufactured tobacco at Calcutta, Guntur Patna Bangalore and Hyderabad (Deccan) Figures of weekly arrivals and despatches of certain staple com modities including unmanufactured tobacco at 35 centres are also given in the journal along with figures for the corresponding week of the previous year From August 1936 a new series on harvest prices of the principal crops is being published in the Indian Trade Journal, the price quotations being collected 'mainly through non official agencies (principally branches of the Imperial Banl of India)

In all 16 commodities and 93 centres have been chosen for which weekly prices during the harvest period will be collected " This series is supposed to represent prices of the principal crops during their harvesting periods at the more important market centres for each crop ' the object being to obtain a better indication of the prices which the cultivator actually receives "For tobacco the centres selected are Muzaffarpur and Purnea in Bihar Belgaum and Nadiad in Bombay Guntur, Tirupur and Vizagapatam in Madras and Farukhabad in the United Provinces Figures of interprovincial trade movements are published monthly by the same authority in the "Accounts relating to the Inland (Rail and River borne) Trade of India' and the "Accounts relating to the Coasting Trade and \avigation of British India" Similar monthly publications are issued giving the foreign trade of British India (by sea and land frontiers) and of the maritime States in Kathiawar and the State of Travancore Figures of area and harvest prices (in only four provinces tiz, Bengal Bihar and Orissa Bombay with Sind and Punjab) of tobacco are published in the "Agricultural Statistics of India" while estimates of area and yield of tobacco are given in the "Estimates of Area and Yield of Principal Crops in India" both the publica tions being annual

The provincial Governments also collect prices of unmanificatived tobacco and some of them make arrangements to publish the price series either in the local Government Gazette and/or the annual Season and Crop Report Thus in Madras, monthly whole sale prices of Virginia and country eigarette tobacco at Guntur are being published since October 1935 in the local Government Gazette based on information on weekly prices collected by the Director of Industries In Bengal, Bihar and Orissa, Bombay and Sind figures of average monthly wholesale prices and harvest prices are collected

^{*}See Indian Trade Journal, August 6th, 1936 page 657

and published in the local season and crop reports. In the Punyoh fortinghily wholesale prices for important districts towns like Attock. Hosharpur Jullundur, Ludluana, etc., are published in the local Government Gazette as well as the harvest prices in the season and errop reports. In the Delhi province, wholesale prices of unmanu factured tobacco are published fortinghtly in the Government of India Gazette.

In Burma, fortnightly prices at four assembling centres, viz, Pakokku Henzada Toun, too and Thavetmyo are published in the Burma (1822th b) the Commissioner of Settlements and Land Records

The Indian Trade Journal publishes monthly wholesale prices at Calcutta Guntur Patna Bangalore and Hyderabad (Deccan) For Calcutta the prices are quoted for Poola Common, which is a term applied to Jati tobacco grown in North Bengal Jati has several varieties and qualities and the price quotations do not specify variety and quality The average annual merchant's buying prices of Jan tobacco at Rangpur as collected during the course of marketing enquiries in 1936 and 1937 were Rs 10 per maund and Rs 10-8-0 per maund respectively (see page 121) The monthly prices of Porla Common at Calcutta as published in the Indian Trade Journal in 1936 and 1937 ranged from Rs 6.80 to Rs 9 per maund and Rs 6.80 to Rs 10 per maund respectively. Thus the prices at the producing centre appear to have been higher than those ruling in the distributing centre which casts doubt on the accuracy of the figures The published prices for Guntur are stated to refer to qualities of unmanufactured tobacco strip. Guntur grows two quanties of unmanufactured tobacco strip. Guntur grows, two distinct types viz, Virginia and Vafu (country) The published prices show that the prices of strip, of all qualities ranged from 18. 32 to Rs 133 per manuf in 1936 and Rs 2.5 to Rs 158 per natural in 1937. The harvest prices of raw Virginia fluctured tobacco at Guntur as collected during the course of marketing fluctured and the property of the property of the property of the manufol in 133 and Rs 158 per candy (i.e., about Rs 31 per manufol in 1337 services of the property (i.e., about Rs 31 per manufol in 1337 services of the property of in 1937 Similarly the prices of raw hatu (country) sun-cured tobacco were Rs 43 per candy (or Rs 7 per maund) in 1936 and Rs 50 per candy (or Rs 8 per maund) in 1937. On stripping and redrying the price of both the varieties of eigarette tobacco increases by at least one third the pri es ruling at harvest time. It is thus obvious that the prices published in the Indian Trade Journal do not bear any relation to the prevailing types grown in the Guntur

area. No indication is given about the type and quality for the price quotations published for Patna, Bangalore and Hyderabad (Deccan). So far as price quotations for Hyderabad are concerned, it is noticed that the same quotation is given from month to month continuously for several months. Thus the price stood at the same figure, viz., Rs. 13 6 0 per maund from March 1933 to January 1934, Rs. 13 3 0 per maund from February 1934 to October 1934 and again from January 1935 to April 1936 and Rs. 11 11 0 per maund from May 1936 to September 1937. The harvest prices of Virginia tobacco at Guntur in 1935 36 were published at a redictiously low figure of Rs. 32-8 0 per candy as against Rs. 40 per candy published for the local (country) tobacco. Such price quotations obviously do not serve any useful commercial purpose

Similar is the case with published provincial figures of prices Thus in the Agricultural Statistics of India Volume I the harvest prices of tobacco as published for Kaira District of the Bombay Presidency are given at Rs 26 11 0 per maund from 1929 30 to 1932 33 The published pri es for 1933 31 and 1934 35 were Rs 1350 per maund and Rs 1170 per maund respectively The Charotar area where the Gujerati bidi tobacco is grown lies in Kaira District where tobacco is almost entirely cultivated in the tract known as Charotar The price figures extracted from the account booms of several growers and village middlemen during the course of marketing enquiries indicate that the per maund prices as received by farmers for Lal bids tobacco which is by far the most important in that area were Rs 11 5-5 in 1929, Rs 7 10 11 in 1930, Rs 10 5 7 in 1931. Rs 7 11 3 in 1932 Rs S 13 11 in 1933 Rs 10 11 10 in 1934 and Rs 7 11 7 in 1935 The published prices have thus no relation to the actual prices realised by the tobacco growers Another example of the price quotations published for the Dellin province may be given to illustrate the extent of maccuracy of the price data published in Government publications

In the Delhi province the Department of Industries collects and publishes in the Government of Indus Gazette fortinghthy proces of tobacco. The published price series indicate that the wholesale price of 'tobacco leaf (dry)'', aread from Rs. 10 to Rs. 18 per maund in 1933 Rs. 15 to Rs. 17 in 1934 and Rs. 14 to Rs. 20 in 1935. The prices refer to "tobacco leaf (dry)'', a term which has no meaning in the trade. The variety and quality are not specified and the official records do not give any information on these points. The leaf tobacco trade in Delhi consists of the hooka' types (Den, Calcuttia and Kampilla), and the chewing types (Poorb, and Soorti). It seems apparent that the prices do not refer either to Calcuttia or Desi since both these varieties were being sold in 1935. There remain, therefore, only three types, i.i., Kampilla, is a hoolah type shile the remaining two are important chewing tobaccos. Extensive enquires made of leading merchants in Delhi city indicate that the prices for Kampilla (including the lowest and laghest qualities) during 1933, to 1934 and 1935 ranged from Rs. 10

to Rs 11, Rs 10 to Rs 12 and Rs 8 to Rs 14 respectively The series of prices therefore do not refer to Kampilla

The following price quotations of several actual transactions noted from the books of merchants are given for comparison —

Poorts (Ist class)—

•			
	Per	Per mauno	
	Rs	4	P
1934—			
March	13	4	c
May	13	8	0
June to December	14	0	0
November	14	4	0
1 35-			
Aprıl	13	6	0
May	12	8	0
September		4	0
Soorts high quality)-			
1334			
April	8	4	0
June	-	-	0
July and August	12 1		ò
September	14		ō
November	15		
1935—	10	•	
March	11	n	0
June		-	0

The first class Poorbi leaf was selling at Rs 14 per maund from June to September 1934 while the Soot to fingh quality fetched from Rs 1080 to Rs 14 per maund during the same period. The prescording to published figures was Rs 17 per maund during this period. In April 1935 first class Poorbi fetched Rs 1360 per maund while the published price for "tobacco leaf (dry)" vas Rs 20 per maund. It is therefore apparent that the published price data do not refer even to the highest quality Poorbi and Sootis leaf.

16 4 0

September

It seems apparent therefore that the wholesale prices of unmanu factured tobacco as published in Government publications have no identifiable relation with the prices of any particular type and quality found in any mirket and to that extent they are of no commercial use to the primary producers and traders.

(2) Non official publications.

The Calcutta Prices Current and Money Market Report, published weekly by the Bengal Chamber of Commerce gives weekly prices in Calcutta of Rangpur, Poola (common), Poola (good) and Bishpat tobaccos grown in Bengal Separate quotations appear for old and new stocks. It is reported that the prices published are based on the daily wholesale rates obtained by the Chamber of Commerce from its members dealing in tobacco. Figures of exports and imports of unmanufactured tobacco are also published along with those of arrivals into Calcutta by rail.

In the Vadras Presidency, a weekly market report published at Virudhunagar gives information on prices of tobacco on the basis of which merchants in the Tharahu Handus give advances against tobacco stocks. The Madras Prices Current and Market Report published every fortungth by the Madras Chamber of Commerce gives, so far as tobacco is concerned only quotations of freight on tobacco.

Apart from these there do not appear any other non official publications including daily newspapers which give any information on tobacco

The monthly reports on tobacto trade in the United Lingdom published by Nesser Frank Watson and Co and Editards Goodtum and Co give information on monthly imports, reexports deliveries for home consumption stocks on hand prices etc for each of the important countries (including India) from where tobacco is imported into the United Kingdom In the absence of standard grades the prices of Indian tobacco, are not however quoted.

(3) POST TELECRAPH AND TELEPHONE

As already said earlier most of the big buyers of unmanufatured tobseco make purchases after inspecting personally or through their agents the lots offered for sale in the producing areas. Even the buyers from the United Kingdom adopt this system and since the last 3 or 4 years, they have been sending representatives to India to inspect the quality of the produce at barriest time. Only the smaller buyers purchase by correspondence after calling for samples. The use of telegraph is frequently made by big buyers in instruct may their agents in the producing areas at the time of making parchases. Occasionally such instructions are given even by telephone exporters to the United Kingdom use the foreign cable service more frequently than the use of inland telegram by merchants and manufacturers.

(4) GENERAL.

It will therefore be seen that apart from their own individual efforts, the producers and traders of tobacco have no other source from which they can obtain reliable information on the prices, stocks, etc., of different types of tobacco. In order to enable information to be published for the benefit of buvers and sellers a dependabilities.

aystem of price quotations ought to be worked out. If this could be done it would bring the producers and consumers into closer contact. It has been seen that the official price quotations are of no commercial use in the absence of any definite system of classification and grading of tobacco. In organising any system of market intelligence, therefore the first essential would be to classify the area and production of tobacco at least by broad types i.e., cigarette eight church of tobacco at least by broad types i.e., cigarette eight church of tobacco at least by broad types i.e., cigarette eight church of the article in each type again varies from one merchant to another. The factors that determine quality are however well known and it should be possible to define the various types and classification is suggested later in the chapter on Classification Grading and Standardisstion.

Once the types and qualities has been defined it should be possible to collect a series of prices in the principal producing areas at least once a week. The local marketing staff should be made responsible for the collection of these prices which can then be given publicity for the benefit of the producers and traders in the given publicity for the benefit of the producers and traders in the province In the first makance only a few centres of production and distribution like Rangpur Cooled Behar Calcutta Muzaffarpur, Bombay Delhi etc. might be selected The price quotations from these places might also be passed on telegraphically to the central marketing staff for giving publicity to traders all over the country done through the press. The radio also can be used whenever possible and desirable

Associations of grt wers and traders might be formed to encourage improvement of tobacco crop selling by grades and for issuing leaders and builetin market intelligence. One such association funtur organised as a result of efforts of the marketing staff early in 1937 is issuing marketing intelligence buileting staff early in 1937 is issuing marketing intelligence buileting and leaflets on cultivation curing grading and marketing for the heart of growers traders and manufacturers. The builetin is being and of the difference of control of the difference of the diffe

INTER-CHAPTER THREE

A study of tobacco places shows the supreme importance of quality and perhaps the most significant fact is that in recent years the place of high quality tobacco has been on the rise while that of second quality has shown a tendency to fall. The average price of fluctured Virginia cigalette leaf, for example, rose by 46 per cent between 1930 and 1937. Even first quality cigar and cheroot leaf, in spite of a leduced malket, showed a firmness in place, but medium and small cheloot leaf showed a drop of 17 to 20 per cent. High quality bids, hoohah, and chewing tobaccos show a similar price tendency.

Prices of different kinds of tobacco leaf range from about Re 0 12 0 per maund to over Rs 80 per maund, but the normal relationship is roughly as follows Virginia flue-cured makes about Rs 25 to Rs 40 per maund although it has been higher in recent years Natu sun cured grown in the Guntur area runs about Rs 5 to Rs 9 per maund The average for eight and cheroot leaf is about Rs 8 to Rs 14 per maund and for bidi leaf Rs 9 to Rs 20, the bidi tobacco of the Nipani area being often over 50 per cent higher than that of Gujerat Chewing tobaccos show a wider range, from Rs 9 to Rs 40 or even more, but snuff tobaccos are on a much lower plane, round about Rs 9 to Rs 11 It is difficult to place an average for hookah types but a range of somewhere between Rs 5 8-0 and Rs 13 per maund would be about normal, the highest being for desi leaf of the Muzzafarpur district in North Bihar The vilayati tobacco grown in the neighbouring district of Purnea commands the lowest price amongst hookah tobaccos but the prices of Punjab grown tobacco are not much better LITCAR

The price of the same variety of tobacco grown in the same district may vity from field to field in the same season. For example, the prices of Calcuttae produced in certain fields near Jaunpur in the United Provinces were as much as Rs. 24 to Rs. 26 per maind while tobacco produced in neighbouring fields fetched Rs. 15 to Rs. 16 per maind and some Rs. 4 to Rs. 6 per maind only. The value of the tobacco harvested in any one field varies according to the part of the plant from which it is drawn. For example, while middle leaves may sell at say Rs. 7 per maind, bottom leaves would make only Rs. 3 12 0 and the rationed leaf as little as Re. 0 12 0 per maind. The earlier pickings tend to be of a better quality than later.

This perhaps accounts for what seems to be a peculiar fact in the tobacco trade as compared with other agricultural products, namely, that prices immediately after harvest are generally higher than prices in subsequent months This is particularly so in the case of cigalette and cigar lenf where colour is important Unless storage is done under carefully controlled condi tions the colour will deteriorate rapidly and subsequent randling will be difficult. It is not surprising, therefore, if in most cases the manufacturers and processors pre for to buy their tobacco from the grower as soon as it is harvested. There are instances of course especially in the case of bidi and hookah tobaccos where colour is relatively unimportant, in which growers by storing and holding over their tobacco in good condition have been alle to get an enhanced price of 10 to 20 per cent six of twelve months after harvest This is owing to the fact that all tobacco requires a certain amount of time initiale and that up to a point the quality steadily improves As against the higher prices there are losses in weight etc during storage to be taken into account and under present conditions it may be accepted as a general principle that the grower is not likely to benefit

in any way by holding over his tobacco to a later season Only in very exceptional circumstances would be be justified in not selling his tobacco as soon as it is harvested and circumstance.

It may be observed that the practice of selling green leaf is not common, though it is done to a small extent by growers in Guntin and Mysore who sell to the flucturing barns there. Usually the buyer only wants cured tobacco and is not interested in green leaf. The value of the crop is largely determined by the system of curing, and as the proper method of curing depends on the variety grown and the ultimate use to which it is to be put, it is highly important that growers should be better informed regarding the process. So far, apart from experimental work on the curing of cigarette leaf, there seems to be no work being done by agricultural departments on the improvement of the curing insthods employed by cultivators in general to other types of leaf

The growing habit of cigarette smoking has already been referred to. This is reflected in the relatively high average price (over six annas per lb.) of tobacco leaf cxported to the United Kingdom. This consists mainly of flue-cined Virginia and the prices are improving. The leaf exported to Japan, however, which is mainly surceined country tobacco, shows a falling tendency and is valued at round about Re. 0.3.0 to Re. 0.3.6 per lb. Exports to the Netherham's are of strill cheaper scraps. Exports of bidi and smoking types of tobacco to Aden etc., which were formerly worth about Re. 0.7.0 or Re. 0.8.0 per lb., are now valued at only about half that pirce. These tendencies are worth noting as an indication of the growing importance of producing egood quality cigarette leaf. The general tendency of tobacco prices to fall in Bengal and Bihar seems particularly worth attention by the authorities in those areas. This is probably due to the production of an excessive

quantity of second quality leaf in those parts A special study therefore, needs to be made in those areas of the type of leaf which is being produced and of the kind of land on which the tobacco is being grown with a view to increasing the proportion of first quality leaf and to meeting the market requirements better

That there is ample scope for expanding the market for high quality Indian tobacco is clear from the progress made in recent years in the Guntiu district. The high quality flue cured Virginia produced there is continuing to displace American leaf imported for cigarette making. Further there are still large imports of chewing tobacco from Ceylon which sell in Travancore at very high prices. It is impossible, therefore, to over emphasise the need for giving a closer study to the production of special high quality tobaccos in order to meet more fully the requirements of our own market.

As a record of facts or as a source of market news the prices officially recorded are probably even more hopeless in the use of tobacco than other commodities There is much need for an improved market news ser vice It will however be appreciated that in view of the enormous range in quality of tobacco grown in any one district it will probably continue to be essential for some time in respect of most tobaccos for the buyers to inspect the produce in bulk at the time of purchase When this is done on individual growers' holdings there is likelihood of considerable variation in price from one to the other and the grower on the whole is hable to get the worst of the bargain One obvious remedy would be for the establishment of a larger number of markets in the producing centres where growers could bring their tobacco for sale and be able to compare the prices offered for their produce with other lots enable buyers to obtain their supplies quickly and would in itself help to educate the grower in producing and

curing his tobacco in the right way. The pieces in such markets would also form a basis for comparison with those in other districts. It seems that there is at piecent only one tobacco market where attempts were made at regulation, ciz, that in Sangh State. There is, therelore, plenty of room for improvement and much need for the constitution of a number of regulated markets in each of the five main producing areas.

Where, as in the case of cigarette leaf, it is possible to devise systematic grading it would be desirable that all manufacturers and processors should contract with growers in advance, as is already done in one instance, for the delivery of their crop at the time of harvest and for payment on the basis of the recognised grades. In the interest of price stability every possible inducement and encouragement should be given to the parties concerned to bring about this desirable state of affair.

CHAPTER IV -- PREPARATION FOR MARKET

A -General

Of all the agricultural crops the tobacco crop is one of the most succeptible to changes in soil, climatic conditions and cultural operations The types and varieties which produce the best quality leaf under one set of conditions will yield quite a different quality of produce under another set of conditions Sometimes even different fields in the same locality require different tillage treatments and the farmer himself knows better the requirements of his own particular field though the main general operation after transplant ing is the conservation of soil moisture and aeration, apart from the operations of topping and suckering Topping and suckering are the most important after tillage operations which determine to a large extent the quality of the finally cured tobacco leaf These operations, however require considerable skill and judgment In the case of Virginia tobacco grown in the Guntur district, for example topping is not generally considered necessary though there are occasions when this operation can be done profitably If the plunts in a field produce thin small and light coloured leaves, it is always idvisable to top the plants. Plants which grow luxuriously and produce dark green leaves are not topped with a view to get leaf of light and fine texture intended for cigarettes and cigars For indigenous consumption the leaf required should be of a coarse and thick texture which can be obtained by a judicious topping of Suckering is generally considered essential for all types of tobacco

Apart from the soil climatic and cultural conditions the quality of the tobacco leaf offered f r sale in market very largely depends on the way the tobacco crop is prepared for the market vir, on the finally cured leaf is very largely determed on the way it is pied of harvested from the plant. The importance of enrefulness in prevaring the tobacco corrop for the marl et cin be easily magnided by hen it is stated that a grower of Virginia fine cured cigarette tobacco can easily get 9 sunas or more per lib for his first grade as aguinst 2 annas per lb for the fifth preade.

The leaves on the plant do not ripen uniformly The plant flow from the plant do not ripen uniformly goes up the plant does fromers are aware of this process of ripening and the position of the leaf on the plant is one of the important rators taken into account by growers in sorting their tobacco leaf before sale in certain areas as for instance Bengal and Blair In spite of this however the leaves are not generally harvested as they ripen in these careas Ripening is indicated by a change in colour from rough and brittle For the production of flue cured cigartic leaf must be fully mature before it is harvested otherwise it retains the green colour after it is cured. An over ripe leaf on flue curring green green the flow of the production of the curred grantle leaf must be fully mature before it is harvested otherwise it retains the green colour after it is cured.

gives an uneven colour and lacks elasticity and fineness of texture.

To get the best results on curing, therefore, the picking of the
leaves from the plant must be done in 3 or 4 stages and only fully
mature leaves must be harvested. Fully matured and ripe leaves
alone give the best colour and texture on curing

The method of handling, green leaf after harvest has also effect on the finally cured leaf, particularly in the case of cigarette and eigar tobaccos Brunes, holes and torn suitaces which occur as result of rough handling of the green leaf or scorrbing of the green leaf which is exposed to the sun's heat for an unduly long time show themselves in the cured leaf

Of all the methods of curing the flue curing is the most complicated and expensive, requiring considerable skill and judgment. It pays better to adopt the expensive flue curing process curly for the type of leaf which the grower is confident will our into a high grade and to reak cure the inferior diseased or stotted leaf as rack curing is much cheaper. Some of the intelligent growers sort the harvested green leaf into ripe medium and green if their observe any difference in the maturity of the larvested leaf. Each of the three qualities of green leaf are then loaded separately in the flue curing barns. But this may not be possible for all such growers and in that case they load all the three qualities of green leaf at the top of the barn, the inedium in the middle and the ripe at the bottom. But used growers are few and far between and it would be best to describe, in livef the general methods of harvesting curing and preparing adopted in different areas for each of the important types of tobacco

B-Harvesting

(1) CIGAPETTE AND PIPE TOBACCOS

(a) Virginia tobacco—In the Guntur area of the Madras Fresi dency, the Virginia tobacco plant is usually alloved to flower and set seed. The leaves are cut when they are fully matured. At this stage they assume a yellowish green colour. The harvesting season commences by about the end of December and may continue till lite in Fébruary. Leaves, are cut generally in two stages. Seguating from the bottom ones as they mature. The havesting is usually done in the evenings and leaves are then heaped in the field for the night to be carted to the barn next morning. Direct heat of the sun is avoided so that the green leaf may not get scorched.

The method of harvesting followed in *Myeore* is almost the san c, leaves being harvested singly as they ripen. Harvesting is generally done early in the morning the usual time being between 5 30 a x to 8 vu. A field is completely harvested in 4 to 6 pickings bottom leaves being picked first as they ripen first. These are then followed by middle leaves which are picked in 2 stages as they ripen the top leaves being picked last. The harvested leaves are then immediately loaded into bullock earts and earned to the barn for curing

In the United Provinces also the leaves are harvested as they ripen Usually two or three leaves are picked at a time In Sund, the cultivation of Virginia tobacco has fast declined during the past three years but it is reported that in the case of those who still continue to cultivate it the whole plants of Virginia tobacco are harvested and then the leaves are separated from the stem before putting them in the curring barn. In the Bombay Presidency, the method of harvesting followed is the same as in the Guntur area.

(b) Country tobacco—In the Guntur district the leaves of country tobacco are harvested generally about 10 days after first sickering when they assume a yellowish green colour. As in the case of virginia leaves are cut in the evenings but the whole carrest may be completed in one stage or two at the most. A portion of the stem about half an inch on either side of the leaf is also cut with a special curved kinife. Next morning the leaves are taken to the curing shed.

In the case of Dest tobacco grown in Vorth Bihar the entire plant is harve ted by cutting it close to the ground. This is usually done early in the morning before the sun becomes strong. The fainty are considered ripe for harvesting when a majority of the leaves assume a vellowish green colour with light brown spots. The cut plants are then allowed to lie in the field throughout the day, being turned over occasionally so that they might dry uniformly In the evening the plants are collected and made into small heaps. The e heaps are opined up after three or four days and the plants are turned over. They are again allowed to remain in the heap for another three or four days so that after about a week, the plants are again handled individually and the leaves separated from the stalks after they are completely whited. If the weather is cloud and the sin in tisting enough this willing may take even up to two weets.

(2) CICAR AND CHEROOT TOBACCOS

In the case of organ and eheroot tobaccos the harvesting may be done either by cutting the whole plant and then by separating the leaves from the plant In the West Godavarn district of the Wadras Presidency the plants are cut from the morning to noon and then the leaves are separated from t'e sten. In the evening Harvesting commences when the margins of the leaves begin to dry up and the colour changes to brownish plant before being put in the shadow of the leaves are cut from the plant before being put in the shadow of the leaves are cut from the plant before being put in the shad for drying Similar is the prace is followed in other districts namely Vadura and Combator in the case of Lankas tobacco about half the internode on either side of the leaf is cut along with the leaf. At Chebrole (Gantur district) grown harvesting is done in 4 to 5 stages as the leaves being ent from

In the case of Jati and other eigar and cheroot tobaccos grown in Bengal harvesting commences as soon as the majority of the leaves on the plant show signs of maturity by way of chang of

colour from green to brownish vellow In some places the seaves are harvested as they ripen the process being locally known as Bachaalt. But the system of harvesting the whole field as soo 1 as majority of the leaves show agns of ripening 1s the one most common and called Dhaladat locally Harvesting is usually done in the carly part of the morning

In Burma the tobacco crop shows signs of maturity about the und'dle of April when the leaves become thick and stucky and show signs of brittlene's at the try. The colour also turns into brownish yillon and some-unes the leaves show brown spots. There appears to be three distinct methods of harvesting and curing adopted to get leaf of different qualities for different purpose. (a) E. Hise.—This leaf is used for manufacturing strong Butmese cheroots for whise unly lea es of this texture of the Burmese Harana and Shurgyin varieties are used. b) had Hise.—This is used with chopped tobacco stalks for making in did cheroot (Hise Bau Leik, Shan Hipel Leik, etc.) The two varieties humyra Hise and Yuef Piya Hise are curred by these nuthods. (c) Dah Hit Hise.—This is chopped or shredded todakto used manily for pipe smoking.

In the case of E Hss or shade cured tobacco harvesting and curing are very carefully done as it represents the best quality tobacco. Topping and suckering operations are carefully conducted to leave on an average only about 9 to 10 leaves on each plant. The leaves are not harvested as they mature though they are plucked sught when the plant as a whole shows signs of maturity. At the main picking only 6 to 7 uppermost leaves are gathered the 3 to 4 eaves nearer to the ground being larvested earlier or later as ω n venient. The e-ground leaves are regarded as of inferior quality and are selded mechanical worth the trouble of shade curing

The value of Kat Has tobacco largely depends upon the extent of thickness of the cured leaf Topping and suchering are therefore very carefully done and usually only 8 to 9 leaves are taken from each plant. The leaves are harvested in 3 or 4 stages as they mature Immediately after gathering the leaves in the morning they are carried to a shed where they are laid one by one on a plank or other flat surface. To facilitate quicker driving the midribs are smashed with a light blow from a wooden rod. The following morning the leaves are taken out from the shed and are spread on the ground in the sun in a double layer, reverse side showing on the top but with the leaf blades overlapping so that the midrib of each exposed to the sun. They are then lightly covered (presumably to I revent them from being blown away or turned and to protect them. from strong sun) with stall's of Kyn or Laing grass Lept in place by an odd rod or two of bamboo In some areas this holding of the leaf in places is done with strips of split bataboo placed 3 to 4 inches apart forming a framework or Kat It is from this though the use of these frameworks is not general that the process takes its name The leaves remain thus exposed to the sun throughout the dayduring the cloudy weather they remain for 2 days-and in the even no when the air is cool and the leaves reasonably pliable they

are collected, any leaf from which the midrib is not thoroughly dry being put aside for drying again the next day

In the case of Dah Hit-Hse, for which, in general, only the inferior tobacco varieties are used, the tobacco is shredded with a dah or a kinife immediately after it is brought from the field. The leaves are harvested immediately after a majority of them show signs of maturity in the field The shredded leaves are then dried in the sair for 3 to 1 days the heaps being moistened from time to time suit for 3 to 1 days the heaps being moistened from time to time with a sprinkling of water. The damp tobacco is then finally packed tightly in a basket which holds about 11 bushels and a cloth is sted over

In Burma not only the leat but also stalls, stems and roots of the plant are used as tobacco. The stalks stems and roots form the by products of tobacco cultivation and are locally called as Has Vo These stalks and roots on a dry weight basis probably represent about 10 per cent of the total tobacco consumption in Burma After the leaves are harvested the bare tobacco stalks in the field are sold off to contractors and in the Shwegyin area they fetch about a rupee to Rs 180 per acre. The plants are uprooted and after shilling off the earth they are cut into small pieces along with their roots. The pieces are then are up to the small pieces and mortar. The preunded material is then served and separated into three sizes. These small bits and powder stalks stems and roots form with tobacco.

af proper an important ingredient in the manufacture of mild and cheap cheroots (Hse Bau Irik han Hpet Irik, etc.) so universally smoled throughout Burma

(3) Bidi TOBACCO

About four fifths of the bid; tobacco crop grown in the Clarcian and Vipani areas of the Bombay Presidency is sold in the form of powder (Bhuko or Chura) the remaining being sold in the form of leaf Lundles (Bandhan or Pendis) used for chewing chilam smaling and hides For preparing bide tobacco powder the entire plait is I arrested by cutting it within 2 to 3 inches from the ground Haivest ing commences as soon as the majority of the leaves on the plant show sions of maturity which is indicated by the leaves turning yellow and having characteristic spots of reddish brown in colour plants are then kept in the field and expose to the sun. After 4 to f days they are removed to the threshing yard. In the case of Lilio tobacco which is considered to be a better quality bidi tobacco Llown in the Charotar area the crop is harvested when the plants are almost completely mature but a little before the appearance of brown spots on the leaves. The harvested crop is then immediately carried to the curing yard where (usually under the shade of a big tree; a rumber of poles are erected at a distance of about 10 feet In thod of harvesting followed in the case of tobacco sold in the form of bundles is the same namely cutting of the whole plants after they show signs of maturity

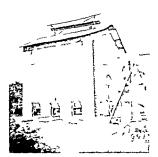
In the Hunsur area of Mysore also the whole plant of bids tobacco is cut 6 inches above the ground

(4) Hookah, CHEWING AND SNUFF TOBACCOS

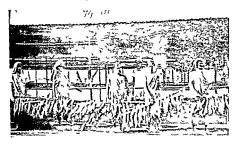
For these types, the harvesting is very largely done by cutting the entire plant, as for example in the case of the Desi or Pocibitobaccos grown in North Bihar and the United Provinces and the Culcuttia variety from the United Provinces, Punjab and Delhi Usually the harvesting commences when the leaves on the plant turn yellow and brown flecks appear on them Another indication of ripeness is that the leaves feel thick and gummy. The time of har vesting is usually the early part of the day Similar are the practices followed in the North-West Frontier Province and Sind The cut plants are either left at their place or spread in rows or made into heaps The plants are then turned over occasionally so that drying may be uniform. In certain parts the leaves are separated from the stem after a few hours' or one or two days exposure to the sun The leaves are then spread on the ground or made into heaps for further drying and fermentation. Under normal conditions wilting takes place within 3 to 5 days after harvesting but if the weather is cloudy it may take 10 to 12 days. For example in Bihar the harvested plants are kept at their places and exposed to the sun on the day they are harvested. They are then collected in the evening and made into small heaps. The heaps are usually opened up in the morning after three or four days and the plants turned over and left in the heap for another 4 days. If the weather is cloudy wilting may have to be continued for 12 to 15 days

In Assam there are two methods of harvesting. In one case ouly the leaves are harvested whereas in the other the whole plant is cut Harvesting of the whole plant is followed in the Kharupetia area where the Motshars variety is grown to a small extent. In other parts of the province the leaves are sometimes cut from the plant with strips of bark joining them Immature leaves which constitute the Bishpat are picked singly In Bengal the Motihari variety which is both a hookah and chewing type is harvested by cutting the leaves from the plant Harvesting is generally done early in the morning In some places in the Central Provinces also the harvesting is done by cutting the leaves from the plants as they mature the case of Kabu; chewing and hookah variety of Farrukhabad district in the United Provinces the whole plant when cut is left in the field for about 2 days after which the leaves are separated from the st m The leaves are then spread in the field for drying and turned over after 4 to 5 days They are allowed to remain in the field until the midrib is dry Wilting of Deer variety-a chewing type of Biswan (United Provinces) takes about 15 to 20 days

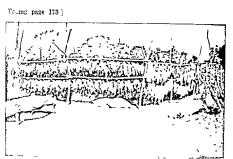
In the case of smolung tobaccos sold in bundles in the Charotar trea the leaves are stripped from the stem with a portion of bril The plants are harvested as a whole when the leaves show bright vellow colour with orange brown spots. The cut plants are then exposed to the sun for about 6 to 7 days after which the leaves are separated. The leaves are then allowed to remain on the ground for a day or two after which they are collected in the morning on a day when there has been a dew fall so as to allow a certain amount of moisture in the leaf for fermentation. In the absence of any dew leaves are moistened by sprinking a small quantity of water. In



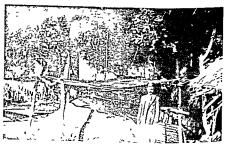
A typical flue-curing barn



Flue-cured leaf being unloaded from the barn



Rack-curing of Lileo tobacco in Cheretar



A heap of b_{tdt} tobacco powder ready for sale at a farmer's house in Charotar.

(1) FLUE-CURING

This consists of drying green leaf under artificial atmospheric conditions by adopting a process which does not allow the green leaf to come in direct contact with smoke or fumes from the fuel and which permits the regulation of temperature and humidity The flue-curing method is followed almost entirely in curing the Virginia eigarette tobacco grown in the Guntur area, Mysore and the United Provinces. It is also adopted to a small extent for curing better quality country (Natu) eigarette tobacco grown in Guntur

The details of construction of a flue curring barn and the metaod that already been described by Shaw and Kasi Ram* It is estimated that there are now (1933) over 2 o00 flue curring barns, in the country located almost wholly in the Guntur and Mysore areas. Two sizes of barns appear to be most common ure, about 20 ft × 20 ft × 22 ft ecoting about Rs 1 300 and commanding 20 acres of tobacco and 16 ft × 16 ft × 18 ft which costs about Rs 800 and can manage "lout 15 acres of tobacco crop (see plate facing page 172).

Immediately after harvest the green leaf is carried to the barn premises where it is first strung on thin bamboo sticks. Three or four leaves according to size are held together with the backs of their midribs touching one another and the string which is tied at one end to the stick is drawn around the bunch about an inch from the butts and the bunch thrown over across the stick next bunch of leaves is on the opposite side of the stick so that the successive bunches are on the alternate sides of the stick which is about 5 feet long Such sticks are then mounted in the barn for curing about 8 to 10 inches apart more space being allowed on hot days. The inside of the barn is divided into a series of layers by means of bamboo poles which form tiers on which are arranged the sticks with the green leaf tied on them. Considerable trouble and judgment are required in arranging the green leaf in the barn and this is usually done the previous evening the furnace of the burn being lighted the next morning with all the ventilators and doors closed

After the furnace starts working the curing process consists of three main stages namely (1) yellowing of the leaf (1) fluid fit ecolour and (11) drying. The heating and adjustment of tem pusitive misde the barn is done by a system of thick metal flues bent twice in the shape of an U. The increase or decrease of temperature is brought about by adding or withdrawing coal to or from the furnace and adjusting the dampers and ere pieces. The veitilators also prove useful. For the vellowing of the leaf a sense of the properature ranging from 85°F to 100°F is used for 30 to 40 dours. The fixing of the colour stage lasts for 16 to 24 hours when the temperature is raised gradually as before from 100°F to 120°F. The mostive let off from the leaves is allowed to escape by opening the ventilators half at first and full afterwards. At this stage the web of the leaves becomes dry while the mid rb and veins have still

^{*}Preduction of Cigarette Tobacco by fine curing by F J F Shaw and Kası Ram

some moisture. During the last stage which may last for 20 to 42 lour, the ventilators are gradually closed and the temperature is again slowly raised to 160°F After the mid ribs and veins are com pletely dried the fire is withdrawn and all ventilators are opened t, cool down the barn The leaf is generally left in the barn over night with even the doors kept open so that it takes moisture from the ur at night and permits handling the next morning when the barn is unloaded (See plate facing page 172) If the outside atmosphere is dry water is sprinkled on the floor of the barn and ventilators and doors closed at night so that the leaf will get suffi ciently soft for handling the next morning

This procedure is however far too general based on experi ments conducted several years back and it is likely that the period ic, ured for curin, may be curtailed with further experimentation so that a larger area can be managed with one barn than at present

The weight of cured leaf obtained comes to about 1,5th to 16th the weight of green leaf The moisture contents in the cured leaf vary from 8 to 18 per cent Buvers are generally unwilling to buy cured leaf which contains more than 18 per cent moisture

(2) RACK CURING

Rack curing is far simpler than flue curing. In this the gieen leaves are cured on strings tied to posts specially erected for the purpose The method is more commonly followed in Madras (for country eigarette eigar and cheroots chewing and souff tobaccos)

Bombay Baroda and Kolhapur (for bid) chewing and smoking Hyderabad (for cheroot and bid; types) and Assam (for hool al tobacco) (See Appendix VIII)

In Burma about 30 per cent of the crop is rack cured

In the Madras Presidency the country (Vatu) cigarette tob cco grown in the Guntur district is cured on racks The leaves harvested in the evening are taken to a temporarily constructed shed or unler the shade of a tree and tied to a string about 21 vards long strings with the leaves tied on them are then folded and piled on the floor overnight and covered during the day They are rearranged the next evening and the process repeated Altogether about 35 countries the process repeated the process repeated Altogether about 35 countries the process repeated the process hours pling is given after which a fairly good yellow colour is obtained. The leaves are then unfolded and tied to racks arranged in the open field Protection against rains is arranged with thick covering of mats as any contact with moisture during the drying stige spoils the colour and quality When the leaves are completely dry they are bulked on a cold dewy morning. In the curing of darker shades of country tobacco however a slightly different process is adopted. In this case the leaves are harvested during any part of the day and not in the evenings or mornings only The harvested leaves are then tied to a string which are then fixed to racks erected in an open field The drying of the leaves takes about 11 months The dried leaves are then bulked early in the morning

At Ellore in the West Godavari district the cut leaves are threaded in the evening and hung up in the open for 24 days. They are after wards stacked and covered with Palmyra leaves during the day and opened up at might. At Mustadabad in the Kistina district, the leaves are string, in ropes about 7 yards long and cured in the value of about 2 months. In the Vizagapatam district the cut leaves are dired in the shade for 3 days and then string up on racks. In the Madura district the leaves are harvested and heaped in the same evening, string up and cured in the open sun for about 20 to 30 days, shifting being done daily. Much the same practice is prevalent in the Trichinopoly district.

In Rengal, the Jatt tobacco as well as the Vothers to a smaller extent is cured on racks. Immediately after harvest the green leaves are carried in biskets to the farmer's homestead where they are used into hanks, each containing 4 to 6 leaves. On the following morning there hanks are placed on bamboo poles and kept in the sun for 4 to 6 days for dring, after which they are removed retried and are airriged on the poles more closely. The poles are again kept out in the sun for one to three days after which they are removed to the curing shed (which may be the grover's but or cattle shed or a temporarily erected structure) and kept horizontally in tiers. The leaves remain hanging in the curing shed for about a month or more, usually till after a shower of rain when they become fit for handling The leaves are then taken off the notes and bulked into hears.

In Assam, the leaves of tobacco after wilting are hung up from bamboos or strings in the open for 7 or 8 days. They are then transferred to a room in the house of the grower where they are hung up from the roof for several days. After getting dry and brittle they absorb moisture on getting the first showers of rains after which they are taken out and tied into small bundles and bulked

In Mysore the harvested green leaves of cheroot tobaccos are tied in bundles and hung up in pandals or curing sheds specially erected for the purpose. The plants are allowed to dry in the open air for about 1½ to 2 months and covered with date palm mats in crise of rains. When the mid rib is dry, the bunches are removed on a dewy morning and bulked in heaps on the ground over which litter is spread.

In the Bombay Presidency, curing of Lilio tobacco leaves of the Charolar area is done on racks. The harvested leaves are carted to the curing yard where (usually under the shade of a big tree) a number of posts are erected at a distance of about 10 feet and cur strings are ted horizontally to these posts at two points from the ground. The leaves are first tied in hanks. Each bank con time about 4 to 5 leaves. These banks are then placed on the strings tied to the posts for drying (see plate facing page 173). The complete curing takes place within about 6 or 7 days if there is no dew fall otherwise it may take 10 to 12 days. Similar methods of rack curing are followed in the Baroda and Nipani areas to a small extent.

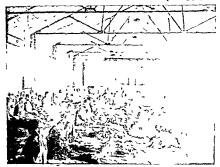
In Burma, temporary curing sheds are erected for curing E Hsc tobacco These sheds consist of a framework of jungle wood with LUCAR

bamboo and thatched roof extending from 15 feet at the centre to almost to the ground level at the eaves The width of the curing shed is usually about 30 feet while the length is composed of a series of 10 feet sections varying in number from as few as 5 to as many as 10, the usual number being 10 to 12 The sheds are open at both ends and one of the end bays is often used as working feeding and sleeping place by the cultivator and his family. In the sheds, the leaves are first sorted in three groups according to size They are then threaded through their butt ends Each string holds about 30 to 40 leaves. The threaded bundles of leaves are then straddled on to 9 to 10 feet long bamboo sticks Separate sticks are used for each of the three grades of green leaf Each of the sticks holds about 7 bundles of green leaf Loaded sticks are then placed on the cross supports erected in the shed. The operations of drying tobacco leaves in the shed may take 20 to 40 days the actual period depending on weather condition Leaves with thick midribs may be taken out from the shed after 4 or 5 days and hung on races temporarily erected under a very light shade for 3 or 4 days in order to hasten drying of the midrib They are then put back in the shed to complete the drying process After the leaves are completely dry they are removed outside the curing shed in the evening and allowed to remain in the open during the night. If the dew fall during the course of the night is insufficient to soften the leaves water is lightly sprinkled over them. The next morning the leaves are brought back to the curing shed where they are made into bigger bundles or hanks by tving the butt-ends of leaves with a string

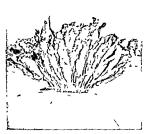
(3) GROUND-CURING

This is the most common method of curing tobacco in India Bombay, Bengal Bihar, United Provinces, Punjab, Madras, North West Frontier Province, Central Provinces and Berar and Burna are the important provinces where the method is in vogue (Decean) Decean and Kolhapur States, Baroda, Goode Behar and Mysore are among the important Indian States where the method is followed extensively. The usual process is that the plants are spread on the ground in the early morning and collected into beaps in the evening. The heaps are disturbed occasionally to prevent occ heating. The process is continued until the midrib is quite dry this method has hittle use for curing a high grade cigarctic tobacco, since the leaf gives up its mosture slowly and turns finally to a brown colour. The method is varied in details in different provinces where it is in vogue. The underlying principle however, is to bring about a certain amount of fermentation either by putting the leaves in layers or in heaps.

In the Bombay Presidency, Lal Bhulo and Chura are removed to the threshing yard after exposing them in the sun for four to six days. They are turned over one or twice while exposed to the sun The midris and veins are stripped and the leaves are further allowed to dry and then broken into pieces by hand. The midribs are assorted and beaten into small pieces and mixed with the leaf powder is then ready for sale (see plate facing page 173).



Sorting and strupping of eigarette leat in an exporter's golown at Guntur



A hank of Buhpat leaf from Cooch Behar.



Calcut a tobacco being made into powder



Interior of a Bhul- factory in the Charotar area showing the sieves used in the preparation of $b\ d$ tobacco mixtures

In Bengal, the Motihars variety is cured in the sun by spreading the green leaves on the ground or mat or a bamboo platform during the day. At night the leaves are removed to a shed and this process is continued till the mid ribs become dry. After this the dried eaves are tied into hanks each containing 8 to 12 leaves. These hanks are then taken to a shed where they are hung on bamboo poles for further drying usually till the first monsoon showers are received. They are then bulked into heaps.

In Bluer, the dried plants are gathered in the evening and made into small heaps. The heaps are opened up in the mornings. The plants are again allowed to remain in the heaps for another four days. If however, the weather is cloudy the process might be continued for 12 to 10 days. The leaves are then stripped from the stem.

Hosoah tobace in the United Provinces is also cured in heaps. At Kampil in Farrukhabad district in the United Protinces which is famous for its hoolah tobacco the rilted plants are collected into heaps which are left in the field for two days and then made into bundles of two or three leaves. The bundles are again heaped up and stored in the barnstead and turned occasionally till finally cured. It plants of Interior variety are drued in the sun after which they may be either tied in bundles or to isted into ropes (Rus a) or beaten into powder (see plate facing this page).

In the Punjab which grows hoolah tobacco mainly, the willed plants are heaped on the ground in two or more rows. In the heaps the plants are so arranged that their tops overlap in the centre of the heaps with the builts facing upwards. The heap is covered with heavy leoth and is allowed to remain as such for six to eight days. During this period fermentation sets in and the tobacco develops aroma After this the heap is examined. If the leaves have developed a yellowish brown colour the heap is opened and the plants are aired in the sum for a short time. In ease fermentation is not complete the heap is allowed to remain undisturbed. If on the other hand the fermentation in the centre of the heap is complete with the top layers remaining uncured the heap is opened and re-arranged in such a way that the top layers go to the bottom and the bottom ones come to the top. After the plants are aired the leaves are stripped from the stalks and twisted into ropes which are known as Russa and Khabbars in the local parlance.

In the North Nest Frontier Protince the curing of the hookah tobacco is done by drying the plants on the field. The leaves are exposed to the sun on both sides for two to three days each until they dry up. After this in the early hours of the morning when the dew has fallen and the plants are wet they are collected and carted to the house where the leaves are separated from the stalks and stacked in a room. The heap is covered with quilts or blankets with a view to retain moisture and avoid excessive evaporation. In the case of sunfl tobacco the plants are allowed to dry in the sun for 4 or 5 days after which they are collected in the early hours of the morning After a week the plants are made into small buildles weighing about 2½ seers each and builded in the open sun and covered with some

matting After a week or so the stock is stirred and the bundles are again heaped for another week to complete the process of drying, after which the produce is ready for baling

The method of curing tobacco in the Central Provinces is some what different. The plants after wilting are removed to the harvest floor where they are arranged in parallel layers of three or four plants in depth. Between the two lines of tobacco a way about 2 ft wide is kept to facilitate handling. The plants are allowed to remain in the layers for three or four days and then water is opinished over them in the evening so that the plants may remain damp overnight. They are arranged in a heap early next morning. The heaps are covered with Kadbi. Obsert Andropogan Sarphin stall s) or bamboo matting and gunnys so that fermentation may stake place. The plants are allowed to remain in this condition for three to five days. In the case of stripped leaves they are direct completely and then heaped on matting and sprinkled with just enough water to wet all the leaves. They are then covered and kept for three to five days so that they may become soft and plable for three to five days so that they may become soft and plable

In Burma the method of curing Kathse is again different. The dried leaves are heaped with the individual leaves flat upper surface against lower under a covering of guinny or in a receptacle closed against air entry. Here they remain for several days or even weeks during which time the rest of the crop is similarly treated. When the whole crop has been dried the flattened leaves are taken singly from the heaps lightly sprinkled with water (to which tamarind is sometimes added to give flavour) and bunched into hanks of 30 to 40 leaves each.

In the case of chewing tobacco in the northern area of Mysore State the whole plants when cut are allowed to remain on the ground for 5 or 6 days after which they are turned over in the early morning to expose the other side. They are kept in this manner for another 5 or 6 days after which they are removed to the curing sheds and bulked and re bulked for 15 to 20 days. The leaves are then separated from the stalks and tied into bundles according to their lengths.

(4) PIT CURING

As the name indicates the curing of the leaf is done in pits in the ground. The method however is not so common. It is mostly found in the Pun'ab Bombay and Madras where hookah and chewing tobaccos are cured in this way.

The Puniab appears to be the most important province for pit curing Nearly all the tobacco grown in Julliandur, Ferozepur, Gujerat and Jhang districts is pit cured. The pits are head with reeds or some straw on all sides in order to prevent the mixing of earth. When the pit is ready small heaps of whited plants are arranged in layers in it. In Ferozepur a layer or two of Ak (mik weed calatopus) leaves are placed between the layers and this is supposed to merease the pungency of the cured leaf. When the

plants are arranged in the pits, the top layer is covered with straw and then heaped over with earth. The top of the pits stands 4 in-6 in above the ground so that rain water may not percolate in the pit. The plants are allowed to remain in the pit for about 6—3 days after which they are twisted into rones or made into bundles.

In the southern tobacco tracts of the Bombay Fresidency, Pendis (bundles) are prepared from the tobacco cured in pits. The plants on harvesting are sprinkled with water if there is no den. They are then put in pits about 3 ft deep with a lining of Kadhi straw (Andropogan) on the sudes and at the bottom. The pit is covered with a gunny cloth over which a layer of Jouar (Andropogan sorphium) stalks is placed. The plants are weighted down with clocks and stones. The pits are opened up within 3 or 4 days. The plants, are however allowed to remain in the pit for 10 or 12 days for Lais (Dlack) pendis. The leaves are then stripped off the plants and made into bundles. The pits are rectangular in shape and 2½ ft—3 ft deep and are himed on all sides with rects or straw

In Madras, however, the process is slightly different. The dired plants when removed from the field are kept in small heap of four or five plants for a few days. They are then carted to a pit 6 ft deep, 10 ft diameter at top and 8 ft diameter at bottom and filled well above the pit for about 3 ft A layer of tree leaves is used and the pit towered with mud. The plants are kept in the pit for twelve to fifteen days. On removal from the pit, the stem is cut into two halves, leaves are stripped and strung up. The leaves are kept in the open for three or four days and in the shade for a month with frequent intring.

Though the curing in pits provides shelter against winds, rain and hallstorm, there is the danger of overheating in the pits if they are not opened up at the proper time

D -Sorting, bulking and re-conditioning.

After the tobacco leaf is cured, it may be sorted into different qualities bulked for some time for fermentation, and reconditioned in the case of eigarette tobacco Excepting in Bengal, Bihar, Madras, Misore and Burma sorting of cured leaves into different qualities is not practised to any appreciable extent Bulking is done by piling the cured leaf into heaps when it ferments on account of swearing resulting from the moisture contained in the leaf. A certain amount of fermentation in heaps helps to drive out excess moisture and is considered to improve the flavour and aroma Reconditioning is a process by which the amount of moisture contained in the cured leaf is regulated and is considered essential for better qualities of engarette tobaccos.

(1) BENGAL

Leaves as a rule are sorted out by the growers who sell their crop by a semi cured state. The final curing of the crop is done by the merchants or on their behalf by the commission agents who have large curing sheds and warehouses for curing, sorting, bundling and bulking of tobacco.

The sorting of leaves is done to suit the requirements of individual merchants. Sand leaves of both Jati and Mothan; varieties known as Bishpat are sorted out and bulked separately. The brittle leaves of Jati variety are kept separate and go under the name of Poolah in Calcultia market.

In Jati variety thick heavy and broad leaves are separated from thin light and pointed leaves the former being meant for wrappers and fillers of cheroots and for chewing for despatch to Rangoon and the latter for despatch to Moulmen in Burma

In Motihari variety the smaller leaves are sorted out and go under the name of Vilayati or Bilayati while the bigger leaves are sold as Mathari

After taking out the tobiceo leaves from the curing sheds they are ted into small bundles each containing 13 to 15 leaves In tying these bundles erre is tall ent to just the best quality leaves on the outside of the bundles the poorer leaves going at the centre. The bundles in the butled in circular steel's with the buttends of the leaves showing on the outside. The stacks are not disturbed for a fortuinght or so after which they are opened. The bottom and to players of leaf are placed at the centre while the middle lyers go at the top and bottom. This process of rearranging the bulk is done frequently to prevent overheating in the bulk and to obtain uniform colour. During the tiree months April to June restacling may have to be done on as man my as 8 occasions and the stack shave to be examined periodically to see if there is over heating. At the time of the final restacling the best quality their bundles are put at the top and sides of the stack as it is at this time that the final side to exporters or manufacturers takes place.

tobacco gets reduced to fine powder or dust This is known locally as dhas and used for cheap snuff and hoolah tobacco. The different types of tobacco powders thus prepared are then filled in gunny bags which are then stacked one over the other in a godown for maturing

In the preparation of leaf bundles the cured leaves are tied most of the bundles, the best leaves being placed uppermost on each side of the bundle and the poorer ones going into the middle. These bundles are then heaped for fermentation. The heap is re arranged periodically to prevent excessive fermentation and the leaf gets read for the marl et within about 4 to 6 weeks after it is first bundled and stacked. Afterwards the bundles are baled and stacked one over the other in a coform.

(3) MADRAS

In the Guntur district, the Virginia coverette leaf is unloaded from the barn in the coolness of the evening kent in shade overnight and halled into hears on the following morning. Bulking consists in arranging the cured leaves along with the string to which they are tied in hears on a raised platform in such a way that the butt ends show themselves outside at the periphery of the heap. The bulk and this prevents the formation of moulds on the leaves The size of the bull varies in accordance with the quantity of leaf produced by an individual farmer but in the case of a small grower it generally consists of fifty strings of leaves. The bulks are covered with mats or tarnaulins. Fermentation soon sets in the bull, and a certain amount of heat is generated on account of sweating due to the moisture contained in the leaves. The bulks are therefore dis turbed and rearranged once in two or three days in the initial stages and at less frequent intervals afterwards. It is the usual practice to examine the bulk at least once a week to see if it has become too warm inside In the process of bulking the slight greenish tinge of the leaves turns into vellow and the leaves become soft and phable In the case of growers who have entered into contract with the Indian Leaf Tobacco Development Co Ltd to deliver leaf of different grades the topacco is graded at this stage. After grading the leaf is packed into loose bales. In the case of other growers, it is the usual practice to bale the leaf without grading but after removing trash and spoifed feaves

With regard to country (Notu) light tobacco bulking is been immediately after the leaves are dry on a cold dewy morning. The strings of cured leaves are folded and kept in a dark room in a poorly ventilated corner. The heaps are disturbed and re arranged once in 2 or 3 days in the beginning and it the less frequent intervals of about a week to 10 days a month later. The strings of leaves are then packed in open bundles. Rarely are the leaves graded except probably for the removal of trash and spouled leaves. The bales are then carted to the buyer's godown. In the case of country (Natu) darket tobaccy, the bulks are shifted and re-arranged at longer after vals of about a fortnight to a month. At the time of re arranging the bulks awek solution of jaggery and myroblasins is sprayed layer.

by layer on leaves and this is supposed to develop a reddish colour and aroma in the leaves. After the growers have completed the bulking operations the cigarette leaf is sold to exporters and mann facturers. The purchased leaf is then carted to the leaf working factiones of the exporters and manufacturers. The loose balts as received from the growers are then untied in these factions and graded into different qualities in accordance with the grading practices adopted by individual merchants and manufacturers (see plate facing page 176). After grading the leaf may be stripped to remove the thick mid not. The stripping is done by removing by hand the mid rib to the extent of 4 to two thirds of its length. It is the usual practice to strip all Virginia fine cured cicarette leaf before export excepting the first grade. Similarly the first grade sin cured tobacco intended for export to England consist of stripped Larger portions of the exports to England consist of stripped leaf.

After the grading and stripping operations are over the leaf is reconditioned or redried For this purpose all the leading exporters and eigarette manufacturers use the re-ordering or reconditioning plant This plant consists of a series of three chambers in each of which the heat and humidity are regulated. The tobacco leaf is passed through each chamber under the action of steam and strong air current. The samificance of the re-conditioning process hies in the fact that it re-dries the leaves to uniform moisture besides helping to kill the insects and germs that may be present in the leaf by the high temperature maintained in the first chamber of the machine The tobacco leaf as emerges out from the plant is in a soft and pliable condition and contains 10 to 12 per cent of moisture Immediately afterwards the leaf is packed either in bales cases or hogsheads. The tobacco leaf as redried by the re-conditioning plant is considered to keep better and for a longer time during storage without muel deterioration in colour On account of this and the fact that the high import duties in England are collected on the basis of weight of tobacco the importers usually prefer to buy leaves from Indian merchants who have got re-conditioning plant It is observed that the tobacco leaf exported by merchants possessing re-condition ing plants sells in the Finglish market more readily and at a slightly higher price than the leaf exported by merchants who have not got such facilities The cost of a machine and other equipments however which is beyond the means of smaller exporters. The number of reordering plants operating in India in 1933 was only 8 In 1937 it rose to 13 which are estimated to have re-dried about 25 million lb of ergarette tobacco The number of machines operating in 1938 is estimated at about 15 It is reported by the exporters possessing these machines that the cost of re-drving comes roughly to about 3 pies per lb and that the extra prices realised is about 6 pies per lb

In the case of other types of tobacco grown in the Madras Presistance bulking is done by arranging the cured leaves in heaps which is disturbed and re-arranged periodically to prevent excessive fermentation. If the weather continues dry water is sprinkled on the heaps and this practice of damping the leaves is more prevalent in the

districts of Madura, Ramnad and Tinnevelly Sometimes palmyra jaggery water is added to give the leaf sweet aroma and taste In south Kanara, sand is deliberately sprinkled on the plants

(4) BIHAR

After the plants of Den tobacco have become sufficiently dry, the leaves are separated from the stalk and sorted according to their size and situation on the plant. The middle leaves (Unhan) form the first quality followed by the bottom leaves (Chhabara) and top leaves (Ramit). The ration crop which is locally known as Donj is cured and sold separately. The leaves of each of these qualities are then bundled separately, each bundle containing 8 to 10 leaves. These small bindles are then arranged into a heap on a pakla or plastered floor. The heaps are broken up frequently at an interval of 5 to 7 days and again rebuilt so that overheating in the bulk, may be days and again rebuilt so that overheating in the bulk, may be the procedure followed in the case of Vilayath tobacco except that sorting of leaves is usually not practised

(5) OTHER AREAS

In the United Provinces, the cured plants of Desi tobacco (Sitapur district) are bulked in a heap or Gan; for about 2 days after which the leaves are separated and tied into bundles. The bundles are then again bulked in heaps. The heaps are examined periodically when water is sprinkled, the heaps turned over and the process is continued for about two to three months after which the leaf becomes dry and strong Similar are the practices observed in the case of Calcuttia variety except that the leaves are not separated from the plant In the Punjab no sorting and bulking is done to any extent In the course of bundling or roping good and bad plants are mixed together though a few growers put better quality plants on the outside at the time of preparing ropes (Russa) from cured tobacco plants. In the North West Frontier Province after the plants of the hookah tobacco are dried the leaves are separated from the stem and then bulked in one of the living rooms of the grower The bulk of the leaves is covered with quilts or old blankets to prevent the leaves from drying too much After about a week the leaves become ready for sale In the case of Nasuar tobacco the dried plants are heaped into bulk. After about a weel the bulk is broken up and the plants are tied into bundles of about 23 seers each The bundles are then again bulked into a heap in the open sun the heap being usually covered with matting After about a week or so the heap is again broken up and the bundles are aired for a day They are then again bulked into a heap for another weel after which the produce is packed in bales

In Uysore the flue cured cigarette leaf is bulked on long raised platforms The bulks are about 5 to 8 feet broad and 4 to 6 feet high The leaves are so arranged in the bulk that the tips of the leaves are towards the inside The whole leaf is then covered with a tarpaulin and wooden planks with weights added to press down the bulk. In bulking the greenish tinge on the leaf turns into vellow The bull a

are examined once in 3 or 4 days and in case the leaf inside the bulk is found hot or mouldy, the bulk is broken up the leaf ared and the bulk rebuilt. The leaf remains in the bulk for about a month of till sold after grauing. The grading is done on the basis of colour and such defects in the leaf as spots, scalding and spoinging, etc. Due to the fact that the area is yet small, the flue cured leaf is not stripped or reconditioned. The chewing leaf is sorted according to size after curring and then bundled. The bundles are then bulked in a heap for sebult once in three days in the beginning and once in ten days after wards. Similar practices are followed in the case of bids and soulf tobacco leaves.

Burma—In the preparation of tobacco (E-kse) for strong cheroots the green leaves are first sorted according to their sizes, the normal method being to put 2 ft long leaves in the lat grade 1½ ft in the 2nd and 1 ft long leave in the Srd grade After curing the leaf hanks are built butt ends outwards, into a fermentation heap varying in size with the crop but usually about 6 ft in diameter and 3 ft or 4 ft in height. The leaf grades Nos 1 and 2 are often heaped together but their d grade is almost invariably heaped separately. The heaps are broken up hernodically whenever the leaf inside the bulk gets hot for immentation. In rebuilding them the position of the leaf bundles are usual at gradually increasing intervals of approximately 3 7 is 2 and 25 to 30 days until heating in the bulk stops. The hands of moistened leaves of Kat Hise are built into fermentation heaps in much the same way excepting that in this case the comparatively dry leaves which form the heap make rebuilding of the bulk less necessary.

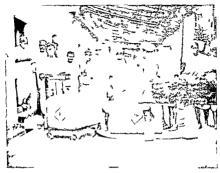
E-Bundling and packing

(1) Bengal

The leaves are first tied into small bundles, each weighing about 2 seers (see plate facing page 176). At the time of tying these bundles the leaves may or may not be spread and flattened and that the district the first three and the facilitate this the leaves are usually spread and flattened and to facilitate this the leaves are first sprayed with pared for different markets in Eurima like Rangeon Akyab holding their butt ends in such a way that to arrange the leaves by holding their butt ends in such a way that the bundle appears of the shape of a palm of hand. The butt ends are tied with a coloured leaves are arranged on the outside of the bundle the inferior ones and statehed to form a bale. Each bale weighs from about a manual to a manual and ten seer.

(2) BOMBAY

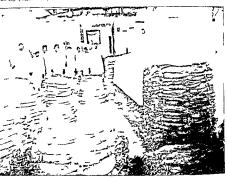
In Bombay, there are many systems of preparing tobacco leaf bundles In the Charotar area the bundles may be divided into



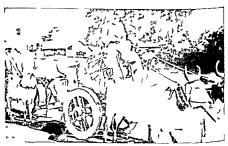
A bale of cigarette lear ready for export



A hogshead of eigarette leaf



Leaf tobacco bundles arranged in a warehouse in the Nipani area



A tobacco bale ready for export to Aden being carted to a railway station

two classes according to the colour of the leaves namely Lal Bandhan and Kala Bandhan The leaves in Lal Bandhan are yellowish brown to reddish brown with spots whereas the leaves in Kala Bandhan are dark to jet black In the Aspans area the bundles are called Hatpan and Pendis, the former being similar to the Lal Bandhan of the Charotar area Generally in making the bundles the leaves are separated from the stem on a dewy morning so that they may be moist and tied into bundles. Care is talen that the leaves are not too moist so that the colour of the bundles may not turn dark brown or black Bundles may be made with or without spreading the leaves In both the cases the best leaves are arranged on the top and the bottom and the inferior leaves are placed in the middle The bundles of Hatpan are prepared by selecting 3 or 4 best quality leaves selected from each plant Each bundle contains 20 to 30 leaves Pendis are prepared in a somewhat different way They are made of pit cured tobacco. The leaves are on stripping from the plants divided into two grades. The superior leaves are used for the outside layers and the inferior one or placed below In the Vipani area the bundles (see plate facing this page) weigh 6 to 12 lb whereas in Satara they weigh 25 to 40 lb In certain parts however smaller bundles of 19 to 20 leaves are also prepared

The bundles are usually packed in bales each weighing 160 to 180 and .40 lb The sizes of bale, are 40 in \times 28 in \times 14 in and 40 in \times 28 in \times 16 in respectively. Smaller bales of 100 and 200 lb are made for tride with Mount Abx and Marnar Bugger bales of 400 lt are also made. The bales of 2j manufas are used for export to Aden for which a luning of straw is put. The bales in this case are about 4 ft long and 4 ft \times 2½ ft at one end and 4 ft \times 2½ ft or 3 ft at the other end (see plate facing this page). These bales are slightly tapering at one end

The bidi tobacco powder is packed in gunny bags in both the Charotar and Appan areas. Either only one bag is used or two are joined together to form a bigger container. The smaller sized bag is about 4° inches long and contains about 100 to 1°0 lb of tobacco powder while the bigger sized package weighs about 200 lb and is over 70 inches long with 56 inches girth.

(3) MADRAS

In the Guntur area growers pael strings of Virginia and countri-(Vetu) tobacco leaves in loose and open bales but covered with gunny cloth on the two end sides. The manufacturers and exporters unloosen the leaves from the string grade and strip them and then pack after redriving other with the help of a reconditioning plant or in the sun. The packing is done in gunny bales wooden cases or howsheads the leif in each of the three types of packages being pressed close by means of a hydraulic press and by trampling. The leaf exported to Japan is packed entirely in bales (see plate facing page 184). Exports to the United Kingdom are also packed in bales though during the past three or four years the use of hogsheads and cases appears to be on the increase particularly in packing the higher rades of Virginia fine cured leaf (see plates facing pages 184 and 1°6) The size of each bale is about 47 m \times 16 m \times 16 m and holds about 240 b to 250 b of leaf In preparing bales, the leaf bale is first wrapped in witerproof paper over which is put a date palm matting. The whole bale is then stitched in guinq cloth. The wooden cases generally measure either 42 m \times 29 m \times 29 m to contain about 300 b of leaf or 36 m \times 25 m \times 21 m \times 29 m holding about 250 b of tobacco leaf. They are lined with water proof paper before pracking the leaf into them. The normal size of hogsheads is used for export is 48 inches in height and 44 inches in diameter b hold 850 lb of leaf.

It is understood that at present horsheads have to be imported from abroad mostly from the Linted States and as such being expensive are bevond the reach of ordinary exporters. Wooden cases also do not appear to be easily obtainable in the Guntur area. The American tobacco received in the United Kingdom market is received in hogsheads and it seems to be the general opinion of manufacturers in England that the leaf matures better in hocsheads than in bales, and that there is more damage by breakage when the leaf is packed in bales. It would be therefore desirable to investigate the possibilities of preparing horsheads from local wood

In the Combatore district date palm matting is used in packing the tobarce leaf into bales which weigh from 80 lb at Palladam Talak. 216et square and 9 inches deep Lonlas tobacco in the West Godavin district also packed in palm leaf mattines, the bales varying in sizes and weighing from 80 to 130 lb. Bales of Lankar produced in Kistina district are al o packed in palm leaf matting, the bales varying in Kistina district are al o packed in palm leaf metting but are of larger each weighing about 175 lb. In Madura and other districts also the method of packing by the syme. The bules in Maduri measure about 30 in × 25 in × 9 in and weigh about 125 lb. In Manaslore covered with eading leaves are packed in eviludical bindles covered with eading leaves. The bundles are of varying sizes and

(4) BIHAR

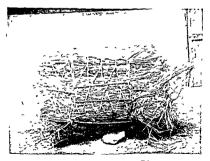
The leaves of both Desi and Vilayati varieties grown in North Bithar are first ited into small binks or bundles each containing S to 10 leaves These bundles are then made into bales wrapped in straw and ited with strings (see plate facing this page). The bundles are rectangular in shape but of different weights varying from 3½ to 6 maunds.

(5) OTHER AREAS

In the United Provinces the cured plants of Calcuttia variety are eitler twisted into ropes (Pussa) (see plate facing page 187) Fallas) weighing about 20 to 20 ho or made into beles (Gonas or Fallas) weighing about 3 manufas each or powdered with wooden mallets Chewing tobseco is however made into small hanks of two to five leaves which are then tred into larger bundles each



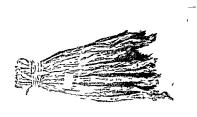
Bales of cigarette tobacco leaf ready for export (Note the AGMAPK bale which contains leaf graded according to standards)



A base of leaf tobacco from Bihar.



Rasa or ropes of Calcutta tobacco stored in a godown



A bundle of des tobacco leaves in United Provinces.

weighing about 4 to 5 lb (see plate facing this page). The flue cured cigarette leaf produced near Saharanpur is packed in gunny doth. Each bale weighs about 180 lb and measures about 2 ft × 3 ft. In the Punjob, the tobacco is packed in gunny cloth and each package weighs about 14 to 2 maunds. Larger-sized packages are also prepared by tying tobacco in date palm mattings (see plate facing page 188). In Sind, the cured tobacco leaf is packed in Pinds, under 6 mattings and each Finds weighs about 12 to 25 mannds when packed. Gunny bags are also used for packing instead of Finds.

In Vysore bids and souff tobacco leaves are made into bales by packing them in date palm mats secured by means of ropes. The sizes and weights of bales vary and each bale may weigh from 2 to 6 local manuals of 32 lb each. Bids powder is packed tight in ganny bags. Chewing leaf is also packed in mattings to form a bale.

In Burma the leaves are first tred into small bundles of 20 to 40 leaves. These bundles are then packed in large bumboo baskets each of which holds about 350 lb of leaves as in upper Burma. In lower Burma small bales each weighing about 93 lb are prepared by packing the leaves in quinty cloth.

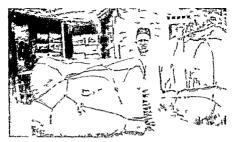
F-Cost of preparation for market

So far as the grower is concerned the cost of preparation for market consists of expenses incurred on harvesting sorting and carry ing the green leaf curing bulking sorting of cured leaf bundling and packing. The following figures indicate the average cost of preparation for market incurred by growers in different areas.—

	Average cost of preparation		
	(Per maund)		
India	Rs A P		
Bengal	1 1 0		
Bombav (Lal bidi powder)	0 8 8		
Bombav (Laho bul: powder)	0 6 4		
Madras (Flue cured leaf)	5 10 0		
Madras (Otner types)	2 7 3		
Bihar	2 2 0		
United Provinces	0 9 9		
Punjab	0 15 11		
Central Provinces and Berar	1 2 0		
Sind	1 14 9		
Mysore (Chewing)	0 15 0		
Mysore (Snuff)	2 1 0		
Baroda (Judi or bundle)	2 12 6		
Purma	0 15 1		

It is thus apparent that the cost of preparing flue cured leaf is the highest being about Rs 5 10 0 per maund or a little over 1 ama per lb The cost of preparing leaf bundles in Baroda (of the type exported to Aden) comes to Rs 2 12 6 per mannd The lowest cost is that of preparing bid prowders in Bombay In this case the curing is done by the simplest process of drying the leaf in the sun and apart from harvesting and curing there are no other costs like those of sorting bulking and even packing Packing is arranged for by the buyers after the bids powder is purchased on the cultivators holding

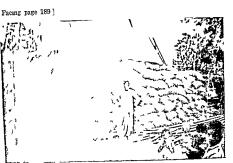
Apart from the fact that the preparation of flue cured leaf for the market is most expensive additional costs have to be incurred by manufacturers and exporters in the matter of further grading stripping stemming pressing and packing. At Guntur the cost of grading comes to about Rs 2 40 to Rs 2 80 per bale of 250 lb while the charges for stripping pressing and packing in bales some respectively to Rs 2 80 Rs 0 40 Rs 0 12 0 per 250 lb of packed leaf In the case of country (Natu) the cost of removing stems from the leaves comes to about Rs 2 per 250 lb of processed leaf The cost of redrying with the and of a re conditioning plant comes to about Rs 4 per bale of 250 lb



Tobacco packed in date palm mattings in the Punjab



Fixing price under cover at a datal's processing factory and godown in the Cha ota area of Bombay Gujerat Left Farmer centre datal right—village sub adal



A=p of l d tobacco bags received from villages and stacked in the godown compound of a datal in the Charotar area



A general view of a b dt tobacco processing factory in the Charotar area

[Preparation for Market.

INTER-CHAPTER FOUR

The preparation for market really begins with harvesting but attention needs to be drawn to the importance of pie harvest operations such as topping and suckering. Plants which grow luxuriously and produce dail green leaves should not be topped if it is desired to have the leaf sufficiently light and of fine texture for cigarettes and cigars. It is desirable, however, to mp the top off weak growing plants in order to get good body in the leaf, and in the case of leaf for indigenous consumption in the form of hookah and chewing tobacco, to obtain a coarse thick texture topping is indispensible

The main steps in the preparation for market are harvesting, curing followed by sorting, bulking and reconditioning and finally bundling and packing

The harvesting of tobacco for eigarettes, pipes, eigars and cheroots is done leaf by leaf in stages as the plant matures, beginning with the bottom leaves and working upwards. Harvesting should be done in the early morning or evening since direct heat of the sun is to be avoided. Only mature leaves should be picked. This stage is generally indicated by the leaves turning a yellowish green colour and becoming brittle. The leaves after picking may be heaped in the field overmight and carted to the curing barn the following morning.

In the case of bidi tobaccos and those intended for hookah and chewing, the entire plant is harvested by cutting it within 2 or 3 inches from the ground as soon as the majority of the leaves show signs of maturity. This in the case of bidi tobacco is indicated by the leaves turning yellow and having characteristic spots of a reddish brown colour. The cut plants are then kept in

the field and exposed to the sun for anything up to six days, before being carried to the curring yard where the better types may be rack cured in the shade. The details of the methods of harvesting, wilting and drying have to be carefully studied in each case.

Curing is perhaps the most important operation connected with the production of tobacco and has a great bearing on the value of the final product. The producer of Virginia flue cured eiga ette tobacco, for example, may get nine annas or more per 1b for well prepared first grade lerif but only two annas for the fifth grade and the grading will very largely, although not entirely, depend on proper curing

There are four principal methods of curing adopted in this country, namely, flue curing, rack-curing, ground (or sun) curing and pit curing. More than two thirds of the total erop in India is ground cured Rack curing is estimated at about one fourth and pit curing a little over 5 per cent of the production. Flucturing is as yet only applied to about 2 per cent of the crop

The curing is an expensive process and can only be appled profitably to eigarette leaf. It is an art requiring skill and judgment in carrying out the complicated operations necessary to dry the leaf under artificial conditions. Careful control of temperature and humidity are essential and these have to be modified in the light of experience from one district to another, and from one part of the season to another and also in accordance with the type of leaf loaded into the barn Normally, after the furnice statis working, the curing process falls into three main stages, first, the yellowing of the leaf at a temperature ranging from 85°T to 100°F for a period of 30 or 40 hours. The second stage consists of fixing the colour by holding the leaf at about

120°F for 16 to 24 hours During this stage the moisture from the leaves is allowed to escape through the ventilators During the last stage of drying out the leaf, the ventilators are closed and the temperature raised to 165°F. Thereafter the leaf is generally left in the barn over night with doors open so that it absorbs moisture from the air and permits of leady hand! ug the next morning. If the outside atmosphere is dry, water is sprinkled on the floor and the ventilators closed.

The methods of curing need further study A recent experiment has shown that by adopting a sapping system which consists of rapidly raising the temperature in the first stages to burst the sap cells, the time involved in the process can be considerably reduced so that the quantity handled by a single barn in the course of a season can be increased appreciably. The whole process seems capable of still further modification and improvements.

Rack curing is much simpler than flue curing In this case the green leaves are cured on strings tied to posts specially erected for the purpose usually in the shade This method is commonly followed in the Madras Presidency for country (Natu) cigarette leaf, cigar, cheroot and snuff tobaccos, in the Bombay Presidency, Baroda and Kolhapur for bidi, chewing and smoking tobaccos, in Bengal for cheroot and hookah tobaccos, in Nizam's Dominions for cheroot and bidi types and in Assam for hookah tobaccos In Burma about 25 per cent of the clop is rack cured. The process commonly followed is for the leaves to be tied to strings two or three yards long. These are then folded and piled on the floor over night and covered during the day After lying for about 36 hours a fairly good yellow colour develops The strings are then unfolded ar t tied to racks arranged in the open fields where they are protected by a covering of mats When completely dried the leaves are bulked, preferably on a cold dewy LITTLE

morning If it is desired to obtain a darker leaf the leaves are barvested during the heat of the day. They are not bulked but tied to strings and immediately fixed on tacks in the open field where they are allowed to remain to about 11 months. The process values somewhat from one district to another and also needs careful study in detail

Ground curing is the most common method of curing tobacco throughout India generally. The usual process is for the plants to be spread on the ground in the early morning and collected into heaps in the evening. These heaps are turned over occasionally to prevent over beating although it is essential to bring about a certain amount of fermentation. The process is continued until the mid rib is quite dry and the leaf turns fully brown. The process viries according to the type of tobacco and in some cases it may be necessary for the heaps to be sprinkled with water in order to bring about the right amount of fermentation and render the leaves soft and labeled.

After curing in mo t of the main areas the leaves are sorted into different qualities—a kind of rough firding—and the eare then bulked by piling the cured leaf in layers into hears. Love it is allowed to ferment so as to dry out excess moisture and at the same time improve the flavour and aroma.

Reconditioning is a process by which the amount of moistine contained in the cured leaf is artificially regulated. This is applied only to eigarette and pipe tobacco and is considered essential in the production of the better qualities particularly for export. Prior to reconditioning, such leaf is generally stripped by removing about two thirds of the mid rib. In the process of reconditioning the tobacco is passed through a series of three chambers in each of which the heat end humidity are regulated by dat the leaf energies in a soft phable condition and contents only 10 to 12 per cent of moisture. It is essential in such cases that the leaf should be packed immediately, preferably in log-sheads.

The methods of bundling and packing vary with the district and the type of tobacco. Generally in mixing bundles the leaves are separated from the stem on a dew morning and put into bundles of about 20 or 30 leaves generally with the best leaves on the outside. The buttends are tied with string or cotton type. The bundles are then packed in guinny doth stitened to form a bale the weight of which varies considerably. In the case of cigarette tobacco, packing may be done in guinny bales, wooden cases or hogshelds the leaf in every case

It is understood that it present hogsheads have to be imported from abroad, mostly from the United States of America and as such are beyond the reach of ordinary exporters. It appears to be difficult to obtain even wooden cases. In view of the fact that it is essential to

keep the tobacco in good condition till the cigarette leaf matures it would be well if packers were in a position to obtain hogsheads made from Indian wood at a reasonable price.

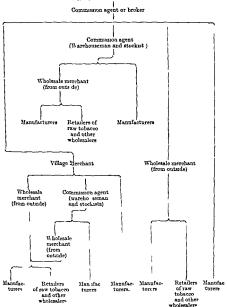
CHAPTER V-ASSEMBLING

A -Agencies engaged in assembling

In the case of tobacco as in other agricultural commodities, assembling is by far the most important stage in marketing since at this point the grower converts his crop into cash

The following chart shows in a general way the agencies engaged in the assembling and distribution of farm cured tobacco —

GROWER OR VILLAGE MERCHANT



It may be, however, noted that the list of intermediaries is by no means exhaustive and complete, though, in general, the chart shows the channel of distribution of farm cured tobacco for internal con sumption in all the tobacco producing areas of the country

Growers sometimes take their produce to a regular or periodical rearket or fair for sale. Some of the well to do growers supplement their load by buying produce of their neighbours. Tobaceo is, however very rarely taken to market by the grower limited, the because there are extremely few regular markets for tobaceo in the producing areas. A desire to have ready eash soon after harves, defective means of transport to the assembling centres and the complicated and varying market practices and multiplicity of market charges are some of the other reasons which explain the preference of the bulk of the growers to sell their crop in their own villages.

Villare banwas and money lenders may buy tobacco from grovers from their own and surrounding villages and sell it to visiting merchants or buvers in a nearby market. They deal mainly in other commodities like grain oilseeds etc and tobacco generally has a minio place in their trade. In Hyderobad and Burma, the local village in mey lender appears to play a dominant part in assembling tobacco.

Interant dealers (e.g. pherias and pathars) who go from vulage to village and but small quantities from producers transporting the loads to markets for resale are not found to occupy any place of importance in the assembling of tobacco which seems to be due to the fact it at tobacco leaf is particularly liable to be damaged during transfori

A major portion of the tobacco crop is assembled by wholesale merel ants and manufacturers who visit the tobacco growing villages and bur through village banuas and mahajans who act as brokers and commission agents. The services of the banuas and mahajans are availed of in view of the fact that there are possessed of the knowledge of the local crop conditions the men and the customs of the localities. Sometimes the merchants and manufacturers send their agent for making purchases in this manner.

Some of the commercial concerns which manufacture tobacco products like cigarettes and bidis buy raw material from growers through their own special purchasing organizations

Professional curers buy green leaf from the growers for curing though this system is mainly confined to the Guntur Mysore and Bihar areas

Arhatiyas and dalals—In most markets like Nipani, Rangpur, Patgram Wuzaffarpur
agenis (dalals and arhatiyas) also undertake the functions of warehouseman and wholesale merchant and in the latter capacity may
buy tobacco on their own account \(\) \(\) conviderable portion of the
tobacco produced in India is assembled through dalals and arhatiyas

in their capacity as wholesale merchants. They assemble the bulk of the tobace crop in Bengal. Bhar, Bombay, the United Provinces, Baroda and Cooch Behar. In Assam, Punjab and North West Frontier Province also the arbathyus assemble a considerable portion of the local produce. Usually they have large godowns and ware houses for the final drving of tobacco and subsequent sorting and bulking

The part played by co operative sale organisations in assembling tobacco is insignificant as will be explained later

B-Methods of assembling and sale

(1) GENERAL

Unlike other agricultural products the most common method of sadopted by tobacco growers is to sell the crop in their own villages and it is estimated that four fifths of the crop is disposed of in this manner. The several methods of selling adopted by the growers in various parts of India and Burma may be grouped into—

- (a) selling standing erop ,
- (b) selling green leaf after harvest to local professional curers
- (c) selling the cured crop in villages ,
- (d) selling the cured crop on contract basis ,
- (e) selling the cured crop in markets and
- (f) selling through co operative sale societies
- (a) The method of selling the crop while it is still standing in the field is common in the Niponi area of the Bomboy Presidency, north Bihar and Delhi Province It is also followed to a smaller extent in other areas. It is estimated that in the Niponi area about three fourths of the growers selling their cop in this manner while the proportion of growers selling their tobacco in this way in north Bihar is roughly estimated at about one fourth to one third. The extent of such sales in Delhi Province is estimated at about two thirds of the total annual crop. In such sales the buyer may take delivery immediately after the green crop gets ready for curing, and do his own curing as in north Bihar or the crop may be delivered to the buyer after curing as in the Apani area and Delhi.
- (b) The system of selling green leaf after harvest to expert curers is found to be common only in Gun'ur and Mysore areas. In Gun'ur, the method is adopted only in the case of Virginia eigarette leaf which is sold by a few growers in green condition to owners of fine curing barns. In Mysore, the Virginia eigarette leaf is sold in green condition by the growers to the Missore Tobacco Co. Ltd The system is also prevalent for indigenous types of tobacco grown in the Mysore State and it is estimated that between two thirds to three fourths of the crop is sold in green state by the growers to bin vir who specialise in curing.
- (c) The method of selling tobacco after curing in the village itself is the one most common both in India and Burma. The whole-

sale merchants from etties and towns either visit the tobaceo growing tracts themselves or send out their agents during the havvesing season to make purchases of tobaceo through the local commiss agents A few of the merchants intimate their requirements by post to their respective local commission agents but the system of visiting the places of tobaceo production is more common in the principal tobaceo producing areas of Bengui Bombay Madras ast Bihar

- (d) Selling of cured leaf on contract is found to be prevalent only in the case of Virginia eigarette tobacco grown in the Gindria area. In this method the growers enter into contract with the Indian 1 caf Tolicco Development Co Ltd to grow a certai quantity of Virginia eigarette leaf and sell it to the company after curing at varying 1 ates and on conditions according to grades specifed in the contract.
- (e) The proportion of the crop that is sold by the growers in regularly established markets is very small probably not more than 10 per cent This system is generally dopfed by the growers who are well to do possessing large areas under tobacco and who are favourably situated so far as the location of a market is concerned
- (f) The sale of tobacco through co operative sale societies has not gaine I any popularity worth the name. The survey indicates there are only 3 co operative societies which handle tobacco in extremely small quantities two in Bombay and one in Madras During 1934 35 the Varna Valley Co operative Sale Union arranged to sell about 3 000 bags of tobacco in its branch at Sangli In the same year the Shri Ganapati Co operative Sale Shop at Sangli handled about 3 000 maunds of tobacco At Nipani, a co operative tobacco sale society operated for more than 12 years. The influence of the local brokers the difficulty of obtaining payments soon after sale and the absence of any system of grading and proper storage facilities were largely responsible for its failure. The Viziavada Co operative Loan and Sale Society in Kistna district of Undras Presidency also handles cheroot tobacco but the quantity is almost negligible There seems to be a consensus of opinion that special difficulties exist in the working of tobacco sale societies there being no definite grades and standards for tobacco which makes it difficult assess the value of the material deposited with the society for sale Most of the sales of tobacco are done on cred t with individuals and firms from distant markets and it is difficult to ascertain their position and to judge the extent of credit that may be given to them A business of this nature necessarily involves several risks and a number of co operative sale societies which deal in other agricultural commodities do not like to include tobacco in their list Even if they do they are likely to meet with failures under the existing system of marketing unless special precautions are taken particularly with regard to credit transactions and stor age facilities It appears that uniform market practices and introduction of grades and standards are the two most outstanding needs for the development of co operative sale in tobacco

The methods of assembling and sale differ very widely from one area to another, even in the same province and it would be best to describe these in brief as operating in the principal producing areas

(2) NORTH BENGAL AREA

In the principal tobacco producing areas of North Bengal the growers generally sell their tobacco in a semi-dried condition sales take place almost invariably in villages where the produce exchanges hands, generally at the cultivator's holding or curing yard During the harvesting season, buyers from different parts of Bengal, Assam and Burma assemble in the producing area and with the help of local dulais, many of whom own spacious warehouses for the final drying of the leaf, its sorting bulking and packing go from village to village, inspecting the produce and making purchases. These buvers, particularly those from Burma stay with their dala's during their purchasing period Sometimes the local dalals themselves make purchases on their own account Samples are drawn from the bulk of the tobacco crop and inspected by the buyer with the help of the dalal If the sample is approved of by the purchaser, the whole bulk is then generally examined to see if it conforms to the sample If the lot is approved by the buyer he offers his price to the grower under cover The buyer or the dalal on his behalf clasps the hand of the grower under cover of a cloth and offers the rate by making signs on the palm of the nand of the grower If the grower accepts the offer the bargain is settled but the price is not declared openly After weighing the produce is carted to the godown of the dalal where it is further dried graded and packed in accordance with the instructions of the buyer. A major portion of the price is paid to the grower at the time of gelivery of the produce, the balance being paid afterwards. The local dalat who is generally known to the grower stands guarantee for the payment

(3) CHAROTAR AREA

In the Charotar area of the Bombay Presidency the growers sell all their tobacco in their own villages. In fact, the curing yard in the fields is usually the place where they dispose of their produce almost as soon as it is ready. Occasionally they have to wait for the customers for some time or in a few cases they prefer to postpone the sale in the expectation of better places. In such cases, the produce is carted to their houses for storage.

Since the quality of product varies from village to village and often from field to field the upcountry merchants—who buy large quantities, usually prefer to visit the tobacco areas themselves or make purchases through their representatives. Sometimes there is such a variation in quality from field to field that some of the upcountry merchants are often anxious to purchase the produce from certain selected fields year ifter year. These upcountry buyers arrive sometime during January to May and stay with their local dalals. These dalals in most cases are shrewd and experienced men possessing detailed information about tobacco crop in the

surrounding villages long before the crop is ready. Most of the villages in the Charotar area have one or more sub dalals each, who are in most cases, themselves tobacco growers. The dalals mentioned above are not only mere commission agents, but several of them possess tobacco processing factories and they make purchases on their own account in anticipation of orders from outside buyers. A few of them have their own shops and bidi factories even in other provinces In the usual course the dalals arrange purchases through their respective sub dalils in villages. When the tobacco is ready for the market the dalats rapidly move from village to village where they meet their respective sub datals who take them round from one field to another The samples of produce are inspected and in case the dalals or the uncountry buyers are agreeable to purchase, the sub dotal takes su tation from the grower under cover (see plate facing page 166) This is done in the same way as in Beigal The rate asked for by the grower is then communicated by the sub datal to the datal ugain under cover. The datals are anxious to preserve secrety in the hope of getting better prices from the likely upcountry buyers. Under the circumstances the sub dalal alone kn we the exact situation in his village, and he is therefore the man who holds the balance and is able to a certain extent to secure favourable terms for the dalal on the one hand and the cultivator on the other according to his own personal inclinations and interet In most cases h wever the sub dulats are anxious to please the dal ds in the expectation of getting greater patronage

After the purchases are made the datals generally send aboveres with bags for picking the produce. If the labourers are not set it by the datals the sub datals are not set for the datals the sub datals are not set for picking are pud by the purchaser. When the bags we filled and studed they are weighted by the sub datal in the presence of the cultivator who renders help in weighing. The bags are then transperred to the godowns of the datal (see plate facing page 189) or a civilly to the railway station for being despatical to the upcountry merchant as directed by the datal. Usually, however the bags are despatched directly to the upcountry merchant only when they desire to have to bacco powder in the form preparably the growers. In a majority of cases however they prefer the datals, to prepare different quality muxtures by further daying and seeing in which case the hags are carried to the datals's factories where to bacco is section and different quality mixtures repeated according to the requirements of the upcountry merchant (see plate facing jage 177)

V few growers sell their standing crop usually to other big growers or sub datals in their village. The practice is, however, not at all common. In such cases, the cultivator has to harvest the green leaf and deliver it at the curing yard of the purchaser. The sales are made a few weeks before the crop is ready for harvesting. The risk of any damage to the crop during the interval due to frost or untimely rain has to be borne by the cultivator, and in such each the contract becomes null and void for loss due to theft from the field.

(4) NIPANI AREA

The practice of selling the crop while it is still standing in the field is the one most common in the Vipani area. It is estimated that about three fourths of the tobacco growers of this area sell standing crop when it is about to be ready for harvest. The pur chasers are Vahars (an important section of the Harrian community in the Bombay Presidence) and petty merchants. No written agree ments are made. In some cases the crop is purchased for a lump sum but the practice of fixing the rate of the estimated produce is getting more common The price is almost invariably paid after the produce is sold by the Vahars or the petty merchant The Mahars generally take the tobacco purchased by them to the weekly marl et at Aspans filled in whots (improvised bags made of Lamble or coarse woollen blankets) or bhods (bars made by statching two old gunns bags) These tobacco paclages are then arranged for sale in the open space allotted by the local municipality for the weekly bazaar The proportion of the farmers who bring their produce to this weelly market is very small. The sales at Yipani are made through dalals. Some of these dalals act as commission agents for the upcountry buyers and in that case they are known as "arhatiyas". It is important to note that most of these people act both for the sellers and the buyers in different transactions

These dalals and the outside buyers attend the weelly market examine the produce from the sample pael ages and try to make purchases by private treaty negotiating over the prices with individual sellers. After the nurchases are made the tobacco packages are carried by the seller to the godown of the dalal where they are weighed and paid for Disputes at the time of weighing are very common as all the packages are not individually weighed and the weight of the total consignment is based on the weight tallen of a few sample packages The quanty of the produce in all the packages is then compared with that of the sample package and in many cases there are disputes about the quality of the produce contained in different packages These disputes are usually adjusted after higgling although the seller is at liberty to cancel the transaction. The seller however rarely does so in yow of the difficulty of finding a new customer or in the alternative to wait till the next bazaar day that is a week after. It is reported that these disputes are more common during days of falling prices

The pettr merchants buying standing crop from the growers do not tale their produce to the weel Iv bazaar at \u2213pan. Thei usually sell their tobacco to apecumtrr buvers through dolcls by private negotiations. In cases where this is not possible the produce is sent to the dolads who then arrange for sale.

The remaining farmers sell their tobacco erop after curing there again the petty villare merchant may be the buyer. In other cases the produce is sent to datals for arranging a sale. In most, of these cases the growers have taken loans from the datals to whom they have to send their tobacco in the normal course for sale.

When the petty merchants or growers send their tobacco to the dalals for sale a rent of 8 annas per month per cart is charged by the dalal for stoing the pac'ages in his godown. The dalal then arranges for the sale at a price agreed upon by the seller

At Sangli chura or angad (tobacco powder) is sold by open auction The growers and petty merchants from villages take their tobacco packages to their respective dalals at Sangli where the pack ages are arranged in the dalal's godown in lots each lot representing the produce of one seller Every day during the tobacco season all the purchasers and dalals assemble at one place and then go from shop to shop where each lot belonging to an individual seller is auctioned separately The shops are visited by turns and serially On one day the nuction begins at the westernmost shop of the market and proceeds eastwards. Next day it begins at the eastern most shop and proceeds towards the west. If on any day all the shops cannot be finished (this happens during rush periods of the season) the auction is commenced at the point where it was stopped on the previous day Most of the packages kept for sale are opened for inspection if so desired by the buyers. When the buyers arrive at the shop the dalal shows them the several lots offered for sale and then takes open bids The highest bid is accepted provided the seller agrees If he does not then his lot is again offered for sale the next time the dalal s shop is visited by purchasers. But once the highest bid is accepted by the datal on behalf of the seller the latter cannot cancel the bid. At the time of griing the bids it is understood by the purchaser that he has to take all the packages in a lot if his bid is accepted. The buyers leave the shop only after all lots offered for sale in that shop are auctioned. The time for the auction is fixed from 9 AM to 3 PM

(5) GUNTUR AREA

In the Guntur area of the Madras Presidency, almost all the sales take place in villages at the curing yards except in the cise of growers who sell on contract to the Indian Leaf Tobacco Devel p ment Co Limited This company enters into bonded contracts with curers and growers in the district under which the latter are bound to deliver all their Virginia tobacco to the company only Accord ing to the terms of this contract the cured leaf has to be graded into five qualities on the basis of samples furnished by the company The first four qualities consist of leaf and the last of broken leaf and scraps but not dust or sweepings. The grading can be done by the grower or under the supervision of a mistri in the company's premises In the latter case the charges for the mistri's services are deducted from the price The usual contract prices specified in the contract form are 9 annas for the first grade 7 annas for the second 5 annas for the third and 3 annas for the fourth and one anna for the fifth grade It is reported that about half the area under Virginia tobacco is so bonded by the growers to the company though since 1937 the number of growers entering into contract with the company appears to be on the decline on account

of competition from other buyers and the high prices prevailing for Virginia flue cured tobacco

There is much to be said in favour of the contract system as lending stability to prices and an assured market to grower, at the time of planting On that account it is worthy of extension points of detail however growers claim that there are difficulties in the present system The company s representative for example 18 the sole judge of the grading standard adopted by the grower as specified in the contract form. This naturally cause, some dissatisfaction among the growers very few of whom are reported to have had the experience of their lots being accepted without regrad ing Although in cases lile this differences of opinion are bound to occur a system of sale which will have a common medium of understanding between the seller and the buver under an impartial expert guidance would certainly be an advantage moderate minded growers who have a long connection with this system have expres ed difficulties in having their grades accepted and have shown a desire for expert grading on impartial standards One grower with an intimate I nowledge of the working put the whole problem in a nutshell by saying that curing is all right but grad However it by no means follows that the ing is never all right contract system is worling to the disadvantage of the growers tobacco trade which has added so greatly to the prosperity of Gantur district owes a large share of its ex stence to the system of purchase adopted by he Indian Leaf Tobacco Development Co and all that can be said is that the grower has some reasonable complaints to make against the existing system A fuller examination of question requires consideration of the vital issues regarding the price abroad and the proportion of it that goes to the grower this point full facts have not been disclosed but such evidence as can be gathered shows that the grower is getting prices ranging from 11 annas to 7 annas for tobacco leaf which sells at 4 annas to Re 120 per lb in the foreign markets that is from 30 to 40 per cent This is a point for consideration

In addition to contracts entered by the Indian Leaf Tobacco Development Co some local merchants from Guntur enter into oral and written contracts for purchase of ungraded leaf at specified prices but such transactions are only small and occasional

In the case of other buvers the Virginia leaf is generally bought in villages in an ungraded form. The buying merchants tour from village to village a broler having been sent in advance. At the grower splace leaf bundles are opened and examined layer by grower splace leaf bundles are opened and examined layer by layer from one side. This operation is called Passing Depend layer from one side. This operation is called Passing Depend layer makes an offer which is never accepted immediately. It is buyer makes an offer which is never accepted immediately. It is usually the broker who makes the final settlement at a later date with the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the state of the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the with the consent of the buyer and prices is always done by private generally go up.

negotation and never by auction. After the leaf bundles are carled to the godown of the buving merehant some reduction in prices is always made on the ground that the general quality is inferior to the one seen at the time of setting the bargain. If the market is brisk, there are generally no disputes at the time of delivery and all buvers, become less risorous in the examination of tobacco bales brought to their godowns by the growers.

The sun cured country tobacco in the Guntur area is generally purchased in ungraded form. If the Indian Leaf Tobacco Development Co want to buy this type of tobacco the growers cart the leaf burdles to the company's depot, where they are examined and the price offered. If the price is accepted by the grower the bargain is settled otherwise he is at liberty to take back the tobacco. Other merchants tour irom village to village examine the bundles fix the price generally through brikers, and arrange for carting the material to their goldowns at their own expense.

There is a small market at Gun ur compri ing about half a dozen adjoining golowns where the growers can stock their tobacco bundles and effect sales through the golown agents. The prices are fixed on the Passing of bundles by visiting merchants by private treaty but such sales are extremely few and during the last three years practically none have taken place in the case of Virginia fluctured tobacco.

The buggest single assembling an purchasing organization in the Guntur area i the Indian Left Tot acco Development Co who have an extensive organization with 9 branches in the distinct and a central depot for warehousing at Chirala. The company also makes advances to curers and owners of barns in the distinct and also distributes seedlings of Virginia tooacco to its contracted growers been in morphotance are the exporting merchants at Guntur dealing in country and Virginia tobacco. There are about half a dozen large firms envaged in this business in addition to 10 syadler ones

6) NORTH BIHAR AREA

In the borth Bibar area about one fourth to one third of the tobacco crop is solo by the growers while 'is still standing in the field. The purchasers are usually local well to-do cultivators who specialise in the curing of obacco and who tre also mercanits. The price of the standing crop is fixed in terms of Intla (122 acras) As a rule no a trance are made to the grover. In some case as about 20 to 20 per cent of ne price may be just to the grower on settlement of the bargam but expectally 'te price are paid after the crop is harvested which i usually finished about 2 weeks after the bargain is settled. In case the crop is damaged which still standing in the field or there is a los on recount of pilteriar the price; reduced by the burger.

Almost the whole of the remaining ero > is sold by growers after curing in their own villages and holdings, to buvers who go round from village to village during the marketing season to make purchases with the help of local commission agents. After purchase the tobacco bundles are carried to the godown of the local agent who pays the grower within about 10 to 14 days after the delivery of the produce. The purchaser is usually required to deposit with the gent about 25 to 60 per cent of the value of the produce in accord ance with his credit. The balance is realised by the agent after consignment of the goods to the buyer by sending the railway receipt by value payable post. In case it is not accepted by the buyer the deposit is considered to be forfeited to the agent and the railways have instructions to rebool the parcel to the agent.

A few er wers specially those situated near a market town take their cured crop to the marl et where the sale is effected through commission agents (arhatiyas). The commission agents them elves may bur the tobacco if the grower is agreeable to the rate offered by them Sales in maikets are very few is compared with those that take place in villages.

Whenever the dest tobacco leaf is r quire I for th laminfacture of cheap eigarettes manufacturing buvers make purcha es by call ing for samples in the first instance r send out men to viliares to inspect the produce on the cultivators holdings and take samples the prices are oftered by the buyer and After inspecting the samples the prices are oftered by the buyer and if the growers agree to the price the produce is carried to the buyer s godown where it is weighed and the payment made immediately in each.

(7) OTHER AREAS

In the United Provinces also the bulk of the produce is sold in villages either to the local merchant or village banija or outside buyers who go from village to village during the mari eting season In markets like Farrukhabad well to do growers and village mer chants take their produce direct to the kachcha arhatiya with whom it is kept in store until sold. The kacl cha arhatiya not only stores the produce but also acts as weighman and arranges for the disposal of the produce through other commission agents arhatijas are licensed by the Farrukhabad Vunneipality and pay Rs 12 per annum as licence fee Sometimes the same man performs For instance more than one function may work as a commission agent and a broker as well An isolated example of a few grovers joining together for the purpose of sale in a market was observed during the cour e of marketing enquiries at bhongaon in Mainpuil district where the growers were found to send their produce jointly to a commission agent at Muzuffarnagar for sale Cigare te tobacco grown round about Saharanpur and Jhansi is sold by the growers to cigarette factories by private negotia tions but generally after sending samples

The largest part of the local production in the Punjab, and the North West Frontier Protince is sold in villages to big wholesals and retail dealers through the village banyas and the dadlas For his services the village banya gets commission from the buyer. If he gets anything from the seller, it is tobacco but this gift is quite

optional When the sale is effected through a dalal who operates in markets and who goes round from village to village with purchasers a commission is given by the buyer to the dalal who gets nothing from the seller except a changi (gratuity) of 1½ to 3 seem of tobacco A mail quantity of tobacco is given by the seller also to the village baniya who acts as a weighman Some of the glowers round about big markets sell their tobacco in markets to or through the local commission agents

Hazro in Attock district appears to be the only market in the Punjab where a regular market exists for the sale of tobacco In all other markets transactions in tobacco are settled at the shops of individual commission agents. At Hazro there are 6 markets, all owned privately The proprietors of these markets have formed a pool and in accordance with the rules of the pool, these markets are divided into two groups of three each. One group sells the produce in the morning and the other in the evening of the same day The group that operates in the morning on one day works in the afternoon the next day Sales are made to local wholesale buyers who are about 150 m number and who further distribute the produce by exporting to merchants in other towns. Most of the tobacco that is assembled at Hazro is from the North West Frontier Province, and majority of sellers are small merchants and dealers who have purchased tobacco in villages. Some of these dealers are them selves growers

In the Nizam's Dominions, tobacco is mostly sold in villages to the local money lenders or sahukars. The payment is made either in cash or the sale proceeds may be adjusted against any loan that might have been taken by the grower from the money lender The village money lender collects the produce from the villages around him and sells it either in the local weekly markets or to wholesale dealers in a big assembling market where the sale is effected through an arhatiya or commission agent A few well to do growers from near a big market also take their produce for sale in the market through the commission agents. In the southern tobacco area of the Mysore State ening of tobacco is almost always done by professional curers who also happen to be village merchants or brokers Some of these village merchants themselves grow some tobacco The producers sell the green leaf about a fortnight or a month before it is ready for harvest. The prices are fixed on the basis of the number of plants The village merchants or brokers buy the green leaf in several villages cure it and then sell it generally to wholesale merchants at Ravandur which is the most important assembling centre in the southern tobacco area of the State Similar are the practices observed in the northern tobacco area of the State, in the case of at least half the produce, the other half being cured by the growers themselves
The cured leaf is then sold by the growers through commission agents in markets like Sira and Goribidnur Some of the growers also sell the cured leaf to the village merchants Sira is the most important assembling centre in the northern tobacco area of the State where the tobacco leaf is sold on weekly fair days by auction and on other days by private negotiation

(8) BURMA.

The bulk of the tobacco growers in Burma take advances from the local moneylenders against the tobacco crop The money lenders may be brol ers wholesale merchants or even the cheroot manufacturers In granting a loan against the tobacco crop the money lenders create—as a first condition—a lien on the crop in their favour. The rate of interest also varies from one individual to another In the case of small tenant cultivator the loan is usually on a kse pe basis the amount borrowed being converted in terms of tobacco deliverable after harvest at a stated price repre senting approximately from half to three fourths of the price paid for the crop of the previous season Immediately after the tobacco is cured all the indebted growers deliver the leaf to their respective moneylenders in accordance with the conditions under which they might have taken advances

The money lenders and a few growers who do not pledge their crop sell the produce generally in villages to big wholesale merchants and manufacturers who go from village to village It is customary for the e buyers to make purchases through local brokers who in turn employ a number of village brokers For their services the local and village brokers get com mission from the buyers For the remaining produce the brokers m assembling centres like Mandalay and Rangoon offer a channel of disposal The tobacco sent to them for disposal is stored free of charge until buyers may be found In the absence of buyers at the assembling centres at the time when the grower or trader sends his produce there are two courses open to him one is to leave the stock with the broker with instructions to sell it later at a specified price and the other is to sell it outright to him in his usual alternative capacity of a wholesale merchant In the first case it is usual for the seller to get advances from the broler against the stock left behind The amount advanced however is seldom more than half the value of the stock at the current price and interest of 2 to 3 per cent per month is usually charged for the loan In case it is agreed to sell the tobacco to the broker it is the usual practice with the brokers to pay from Rs 3 to Rs 5 for 100 tiss below the current market rates

C -Marketing charges

(1) GENERAL

Tobacco as a rule passes through several hands before it actually accepts the manufacturer or consumer and expenses are mourred at there is tages in the proces of assembling and sale of grower s baseo. In all the tobacco growing tracts the market charges are levied either on the basis of weight or on the prices realised when the grower sells his tobacco in his own village his market expenses are by no means small in all the areas for example in the Charofar area where almost invariably sales of grower s tobacco take place in villages, the average cost of marketing incurred by growers in accordance with the farm economics investigations con ducted by the Bombay Department of Agriculture in 1934 35 to LHCAR

1995 37, comes to about Rs 1 100 per manud It may be significant to note that in accordance with these investigations the average outof pocket expenses of the grower on the cultivation of tobacco, i.e.,
on material, equipment, land revenue and rent, bullock labour,
hired manual labour and marketing services came to about Rs 69
per acre out of which the cost of marketing alone amounted to about
Rs 12 per acre or 18 per cent of the total

The market charges for the various items, which will be discussed later vary not only from one district to another in the same province but also from one commission agent to another in the same market It is only at the bigger markets like Aipani and Guntus that the commission agents levy charges which are com paratively uniform But even in these distinction is made between the well to do growers and other cultivators because the former visit the commission agent's shops more frequently and the commission agents are more anxious to leep their custom by charging them more equitably. The market charges are payable both in kind and eash In most areas the grower as a rule has no correct knowledge of the numerous deductions in gross weight and prices which are made in the various markets mainly by usage Apart from the fact that there are extremely few marlets where the grower can take his tobacco for sale one of the chief causes as to why the grower prefers to sell his tobacco in his own village is the multiplicity and com plexity of market charges found in all principal tobacco producing areas

The main items of market charges are (a)-commission or broker age, (b) weighing charges (c) charity (d) allowance in weight, and (e) discount for each painment. The commission is the remuneration of the commission agent who is called dalal or arkatiya or addity an indifferent localities. His function does not appear to be clearly defined so far as the tobacco trade is concerned. More often he combines in himself the functions of a broker, commission agent, warehouseman and wholesale merchant. The commission is payable usually both by the seller and buyer. Charges for weighing tobacco are invariably paid by the seller usually in each and sometimes in kind.

In all the areas a charge is levied on account of charity in one form or another. It goes under different names in the various parts, for example dharamadiya dharawa, thadrony, goushida, purpapole, pathishada, anathadaya, etc. The purposes for which charities are collected may appear to be laudable but it is highly problematical whether they are fully utilised on the objects for which they are collected Besides the parties who make the payment towards have any hand in the disbursement of the charity fund Charity is usually collected in each from the seller or buyer or from both

At the time of making payment for the sale of his produce to the seller, it is the custom in many markets to deduct a discount from the total sale proceeds before payment is made to the seller The amount of this discount may be as low as 4 to 6 annas to as high as Rs 15 for every Rs 100 of the gross sale proceeds. There are several deductions in weight which go by different names in various series of the country. In addition, there are several other miscellaneous charges, like the Merchants' Association Fund and Board mg House Fund at Alpain, paghada or gift in the Charotar area, baisar and dudhkhou an Bengal, etc. These market charges are extremely variable from one province to another and in many cases attemely variable from one province to another and in many cases are strengly across the second complicated. As such there is no comparison between the market charges of one province with those of another. Under the circum stances it would be advisable to discuss in brief the system of levying market charges from the sellers and buvers in the principal producing areas.

(2) NORTH BENGAL AREA

In this area, the dalal who arranges the sales in villages gets a commission only from the buyer but nothing from the seller. The rate of actual commission charged to the buyer depends on his relation with the dalal. From the Burmees buyers a commission of 6 amas per maund is charged. The Burmees buyers are generally provided by the dalal with a separate house to live in addition to many other privileges. Besides they get from their respective many other privileges. Besides they get from their respective many other assist at the time of leaving the producing area, and this may amount to 1 to 2 annas per maund on the purchases and the material provided by the dalal to the buying merchants. In cases where the buyers have purchased direct from the grovers and are anxious to store their purchases with the dalal for a short time before despatch, a commission of 2 annas per maund is charged which then virtually becomes a storage charge.

The grower as a seller, however, has to pay several allowances in kind to the buyer The normal unit of sale is usually a bulk of tobacco weighing about 20 maunds The seller has to give to the buver a sample of 3 seers which approximately comes to about 2½ chhaianks per maund If the buver purchases the lot the sample is allowed to be retained by him free of cost At the time of weighting, a few bundles about 5 seers in weight are taken out for the weighting to see the cost of the seer of the the buyer free of charge An allowance for shrinkage in weight (dhalta) is taken by the buver and this amounts to about 20 seers for every 20 maunds At the time of the delivery of the produce the buyer usually does not take away the tobacco stock purchased by him, until some extra leaf is given to him free This extra leaf varies from one buyer to another and also from one grower to another and is called hat tola which means an offering at the time of delivery of the stock Again at the time of final settlement of accounts and payment to the grover, the buyer demands a present called mangon or dudh khoua This is usually calculated at about 2 to 5 per cent on the gross value and deducted from the sale proceeds due to be paid to the grower

(3) Charotar area

The number of market charges in this area is not only large but also complicated A maund in Charotar normally consists of 40 local seers of 1 lb each The market charges incurred by the grower consist very largely of allowances in lind. At the time of weigh ing 1 seer per bag is taken as naman or greeting While weighing the fractions of a seer are ignored. Two seers are deducted as weight on tare (bardana th ugh the actual veight of the gunny bag ranges from 14 to 13 seers. After filling in the bags an odd quantity left over from the heap of the grower's tobacco is taken away as sample After making ill these allowances the weight is then calculated and this becomes kachcha weight. The weight in pakka maunds is then calculated from the kachcha after maling further allowances for the different types of tobacco For Lilio tobacco a maund is taken to be equal to 42½ seers for Lal 43 seers and for leaf bundles Khakra and Khutan the maund may be taken at anything between 45 and 48 seers though the actual local maund is only 40 seers. It is from these varying weights of a maund that the pakka weights are cal culated from the hachcha weights. The extra weight is reported to be taken on account of possible shrinkage. After calculating the pakka weight a further deduction in weight is made at the rate of 1 to 1 lb per local maund Loss due to possible leakage in transit is considered to be the justification for the origin of this labh total value of the tobacco is then calculated for the final pakka weight at the settled price From the figure of this value, the following deductions are again made -

(i) Vatav -The origin and the significance of this will be discussed later but it may be stated at this stage that the tatav was intended to mean a discount for making eash payments to the grower immediately after sale Immediate payments to farmers for the tobacco weighed out by them are however, practically unknown in the Charotar area. The village sub datal gives an undertaking to the grower of paying the sale proceeds within a specified period which may extend to any where from one week to six months or even more in rare cases It appears however that in a majority of cases payments are made within about a month ever vatav is now taken from all the growers irrespec tive of the period that intervenes between the sale and payment The rate of this discount varies from 2 to lo per cent in different villages and also from one year to another in a few villages so that in extreme cases the growers may have to pay as many as Rs 15 on account of discount for every 100 rupees worth of tobacco sold by him This discount is shared between the village sub dalal the local dalal and the buyer The village sub dalal usually gets one per cent of the value of the produce as his share of vatav, while the amount of the share of the vatav given to the buyer depends upon the promptness with which he makes pay ments for his purchases

For making the payment in eash within a specified period the buyers are allowed a certain discount which finally has to be paid by the seller. If the payment is made by the buyer within 4 days after delivery he is allowed 4 per cent discount and if within 15 days 3 per cent. If he pays within 2 months a smaller discount may be permitted but if the payment is made after 2 months no allowance is given

In addition certain allowances are given to the buyer. These seers are deducted for every cart load of tobacco. Further 2½ sees per bag are allowed on account of tare and mosture. If the tobacco is peached in blots thus deduction is 5 seers. If the tobacco is stored in loose condition and is reasonably drv only an allowance for tare is made and not for moisture at the rate of 1½ seers per bag and 3 seers per blot.

(a) GUNTUR AREA,

The rate of brokerage for village sales in the Guntur area varies from one rupee for Country tobacco to two rupees for Virgina tobacco per candy of 500 lb the exact amount varying with the individual and his relation with merchants and brol ers. In addition most of the villages have got their own memods and charities the rate of which varies from two to four annas per candy. Many purchasers are reported to make deductions at the time of weighing to the extent of 10 lb per caudy and also charge 4 annas per candy for weighing though the practice is not uniform. If the grower brings his leaf for sale in the Guntur market which consists of 4 or 5 adjoining godowns as explained earlier the following charges are taken for every candy of 500 lb of Country (Nath) leaf—

	Rs A P
Commission to godown merchant	100
Unloading charges	0 1 0
Arranging for inspection	0 1 0
Samples about 2 lb	0 2 0
Charity aid temple	030
Weighment	0 1 0
Total	1 8 0

(6) NORTH BIHAR APEA

When standing crop is sold no marketing expenses are incurred Even when the grower sells his crop after curing on his own holding, he has no specific marketing charges to pay It is understood how ever that the purchaser takes much more by manipulating at the time of weighing Weighing of tobacco in villages is done on dhari basis 4 dhars making one local mained. The weight of a dhari varies from one area and village to another and even in the same village the purchasers change the weight of a dhari na coord ance with the mosture contents of the tobacco leaf Ordinarily the

weight of a maund is 40 seers one seer being equal to 80 tolas But the weight of the local maund of tobacco taken by the buver from the grower generally varies from 52 to 56 seers or sometimes even 60 seers In addition the weighman takes a considerable amount on the pretext of keeping the count of weighment For every maund of tobacco leaf he leeps away one bundle of leaf which he takes as his remuneration for weighing. The weighman besides gets from the purchaser about a seer of tobacco per ganth (a bundle weighing 4 maunds) The purchaser has to pay for the boarding expenses of the dalal or arhatiya during the time the former is out with the latter in villages for making purchases Besides the dalal or arhatiya gets from the buyer 2 to 3 seers of tobacco and a commission which though not fixed comes to about 2 annas per maund

With regard to sales in markets like Patna and Dalsingsarai it appears to be the custom in most markets that the dalal receives com mission both from the buver and the seller At Dalsingsarai for example the rates of commission paid to dalal are 3 pies per rupee by the seller and 3 pies per rupee by the buver Three pies per maund are charged for weighing to the seller In addition there are 2 types of charities One anna per transaction or per Rs 100 of the value of transaction is charged both to the buyer and seller on account of goushala Charity on account of pathshala (school) is taken at 6 annas per transaction from the seller and one anna per transaction from the buyer Similar are the market charges in other assembling centres with small local variations

(7) OTHER AREAS

In the United Provinces the market charges at Farrukhabad are as below -

- (t) Allowance in weight of chhoot-1 seer per local maund of 55 seers
- (n) Unloading charges—2 annas per cart
- (m) Weighing and commission-6 pies per rupee
- (w) Muddat (discount)-24 annas per hundred rupees (v) Writing charges to Munshi-1 anna per consignment
- (11) Charity sweeping etc -1 anna per cart
- (111) Tari jhan or allowance in kind to kachcha arhatiya-1 to 1 seer per cart

In areas like Jaunpore Agra Jhansi Badaun Bareilly Vicerut, accas the Jaunpore Agra Juans. Data of the growers in their rill once the ouvers purchase directly from the market charges splages through the local commission agents the market charges con ist almost entirely of brokerage or commission sion charges were found to be 8 annas to 1 rupee per hundred rupees at Agra 1 anna per maund at Jhana 2 annas to 4 annas per maund at Badana 2 annas to 4 annas per maund at Badaun 1 rupee per hundred rupees at Barelly and Jaunpore and 5 and 6 pies per rupee at Meerut In addition the growers always give a certain quantity as dhalla or allowance in weight according to the to the customs prevailing in different parts of the province extra weight varies from 1 to 10 seers per sale

In the case of village sales in the Punjab, the village bonue or dalad who effects sales usually gets 3 to 6 pies per rupee as commission from the buyer. The seller is not required to pay anything but generally he gives 1½ to 3 seers of tobacco by way of gift to the village baniya or dalad. In the Hazro market the seller pays a commission of 2 annis per maind. The buyer also pays the same rate of commission and in addition 3 pies per maind on account of charity. In other markets of the Punjab the charges vary from one place to unother. It some malacts marl et charges are recovered only from the seller while in others both from the buyer and the seller. The charges also vary in the same market from one commission agent of arge 3 pies oftens charge 6 pies per rupee as commission agent, charge 3 pies oftens charge 6 pies per rupee as commission to the seller. The following are the market charges at Ferozepiur.

Paid by the seller

- (i) Commission-11 annis per maund
- (u) Weighing charges-9 pies per maund
- (111) B ol erage-6 pies per maund
- (10) Dharman or charity-6 pies per hundred rupees
 - (v) Discount for each payment-3 pies per maund
 - (11) Terminal tax-4 annas per maund

Paid by the buyer

- (1) Commission—12 annas per maund
- (u) Brokerage-6 pies per maund

In the Vorth West Frontier Province the seller pays to the commission agent a flat charge which is locally called dhardt and which covers all miscellaneous marie charges like commission weighing and storage charges. This dhardt charges arms from 8 annas to 1 rupee per maind according to the charge starts from 8 annas to 1 rupee per maind according to the charge starts from 8 annas to 1 rupee per maind as dhardt in other cases the rate of dhardt is 8 annas per maind. The buret pays 1 anna per maind (10c lb) as weighing charge and nothing more

The market charges in \$\siz\ \text{airgms}\$ s Dominions\$ range from Re 0.26 per manual at Budar At Hyder abad the charge comes to \$Re 0.4 10 per manual while at Warangal the charges total to \$Re 0.29 per manual. This charges includes commission weighing charity local fund and toll tax In the Rayandur marlet of \$Uysore State\$ the commission paid by the buyer usually comes to 4 annas per manual of 32 lb. There do not appear to be any other charges. In the Sita marlet the commission agent gets commission both from the seller and the buyer. The commission paid by the seller is half an runa per tupee while the buyer pais \$a\$ commission of 1 anna per manual of to thoacco purchased In addition the seller has to pay rusoom representing contingent expenses \$Abarma or charity and chintalu or weighing charges.

charges are 2 annas per transaction while the charity charges come to half the amount paid for resoom Weighing charges are 3 pies per bundle or 4 annas per cart Besides a cash discount is also taken from the seller In case the sale proceeds have to be paid immediately this cash discount is charged at the rate of 8 to 10 annas per cent which goes to the commi sion agent if the baver does not pay the amount within 7 days. If the buyer makes the payment within the stipulated period of 7 days he gets the lenefit of the eash discount .

(8) BUPMA

In the village sale at a customary for his buyers to make purchases through local town brolers of the productio are a rad these in turn employ a number of village brokers. From the buyer the town broller gets brokerage at the rate of sannas per L nired the town broller gets brokerage at the rate of sannas per L nired the town brokers. This he shares with his village brokers. The seller has to pay nothing In markets like Vandalay the rate of br acrage 1 1 rupee per basket (100 to 110 tiss) to the eller and Sannas to be buver In Myngyan brokerare is Rs 180 to Rs 2 per bas et pavable by the seller The buver pays nothing

(9) SUMMAPY

The statement n Appendices LIX and LX hows it average market enarges (excluding the cost of packing and transpor) as paid by the ellers and buvers for every hundred rupee worh of raw tobacco sold in (1) villages and (11) markets The following floures show the average total merchandising charges in the five principal

tobacco producing areas of India -Average total market charges per hundred rupees worth of raw tobacco in the principal producing areas

tobacco	in the	principal	produc		
	<u>-</u>			Gun	tur Orth
_	North Cha Bengal	Charotar	\ipani	\ iron.a	Bihar
	RS A F	Rs a P	RS A P	R« A P	RS AP RS AP
Village Sales—		1		2 5 6	1 1 6 0 13 9
Paid by seller	5 6 0	1 14 9 0		5	112 3
Paid by buver	2 6 0	0 10 0		3 8 6	4 17 6 0 10 0
Total for sale in villages	12 0	15 3 0			
Sales in Marlet-		i		0 4 0 4	0 3 5 10
Paid by seller	Ì	1			9 8 9
Paid by buver			1 l.	4 4 0	4 0 > 14
Total for sale m market		1	1. 0		1

It is obvious that the highest market charges are incurred in the Charotar area followed by the Nipan area. In village sales the grower in the Charotar area pays in kind and eash nearly Rs 15 for every hundred rupees worth of tobacco sold by him and in a few eases this charge may even exceed Rs 20. The marketing expenses incurred by the growers in the North Bengal and North Bihar are only 38 per eart and 6 per cent respectively of that paid by the Charotar grower. In the Guntur area, the grower's market ing expenses per hundred rupees worth of tobacco are Rs 386 for Virginia and Rs 4126 for Natu when sold in villages as against Rs 404 and Rs 570 respectively when sold in the Guntur marlet.

It is clear from the figures given in Appendix LIX that in utilizing sales apart from Burma the lowest expenses are incurred in the North Bihar area where the total merchandising charges for every hundred rupees worth of tobacco come to only Rs 2100 as against Rs 1530 in the Charotar area Rs 11-40 in the Della province Rs 7 12 0 in the North Bengal area Rs 4 12 6 for Natu tobacco and Rs 386 for Virginia leaf in the Guntur area and about Rs 2 11 0 m the United Provinces and the Punjab In the Charotar area over 52 per cent of the marketing expenses are incurred in respect of several allowances in weight and another 43 per cent in respect of discount both paid by the grower buyer therefore pays hardly 5 per cent of the total marketing expenses In the Delhi province the value of allowances in weight comes to 75 per cent of the gross sale proceeds as against 1 per cent or less in the United Provinces and the Punjab and 2 to 25 per cent in the Guntur and North Bengal areas In North Bihar, there does appear to be a regular system of giving allowances in weight though it is reported that the buvers take larger quantities by the manipulation of weights and scales Commission appears to be charged to the growers only in Guntur and the United Provinces while the buyers are charged commission in North Bengal, Charotar, North Bihar Punjab and Delhi In Burma the marketing expenses in village sales appear to be the lowest and consist of commission charged only to the buyer

With regard to sales in mariets the merchandising expenses in the Nipama area are the highest being nearly 12.5 per cent of the gross sale proceeds out of which over 10.5 per cent are paid by the seller Allowances in 1 and account for a little less than half these for over one fourth. The Guntur market the total charges come to 4 to 5.5 per cent of the sale proceeds all paid by the seller Allowances in weight cold the sale proceeds all paid by the seller commission run, es finon 1.4 per cent in the case of Virginia to 2.3 expenses come to a little less than 6 per cent for the sale proceeds of the fact that the Punjab is not provided to those or producing province the marleting expenses come to Rs 10.11.7 per hundred rupees out of which the seller pays Rs 7.71 Broberage and come to the seller pays Rs 2000 pays

mission account for over 60 per cent of these charges while charges on account of terminal tax come to about 31 per cent In the United Provinces the average expenses come to Rs 655 per cent, all paid by the seller Of these, the municipal taxes come to Rs 180 allow ances in weight his 1 12 0 and commission and brokerage Rs 2 0 10 The market charges in Hyderabad appear to be the lowest among the areas considered, being Rs 2 12 6 per cent of which commission

In Burma markets, there appears to be only one market charge, alone comes to Rs 2 tiz, commission the percentage rate of which comes to about Rs 3 charged to the seller and Re 088 taken from the buver

D -Organization and control of markets

(1) PRINCIPAL ASSEMBLING AND DISTRIBUTING CENTRES

Technically the word "market" has several meanings It may mean just a meeting of persons for the purposes of buying and selling, or may represent a place where the buvers and sellers meet for the purpose of effecting exchange A market may be a region or a country or it may simply mean an opportunity to buy and sell It may also mean a body or group of people associated together for the purposes of buying and selling as for instance the various com modity and stock exchanges In ordinary language however market means a place where the seller disposes of his produce to the buyer

So far as tobacco is concerned a market may be taken to mean, in ordinary language a place where the growers sell their tobacco and where the merchants and warehousemen perform the as embling and distributing functions As already explained earlier the bulk of the tobacco crop is sold by the growers in villages in fact on their own holdings and as such the farmers' holdings form the main primary markets for the disposal of grower's tobacco In view of the fact that a majority of the growers part with their produce on their own farms by private negotiations with the buyers there is no regular assembling of produce in the producing areas and as such, no daily buying prices are established in the primary markets result is that the grower does not know whether he has secured the correct market price for his tobacco

The so called tobacco markets are really econdary markets for assembling and distribution where merchants and warehousemen where merchants and warehousemen by them in villages Even in these by them in villages markets there is no open place where the produce is assembled in large quantities as in the case of wheat and cotton markets Generally the warehouse of a dalal or an arhatiya serves the purpose of a market In certain areas there are no commission agents who deal scalars in certain areas there are no considered with other come deal scalars by in tobacco but they handle it along with other come deal scalars. modities like grain sugar, betel nut, spices etc

In Bengal, the principal assembling and distributing centres are Rangpur, Cooch Behar, Patgram Jalpargurt, Dinaspur Hargoocha, Calcutta and Dacca In all these markets the dala's warehouse serves the purpose of a market place But these are of little use to the growers as sales are generally effected in villages

Similar is the case in the Charotar area of the Bombay Presidency where there are no regular and open markets for the growers tobacco. The merchants however have their godowns and precessing factories at several places in this area and these act assembline and distributing centres. Such places of importance are Chikodra Nadurd Lethad Mogra and hand. In the Viponi area Mapani Saugh and Java ingpur are the important markets for bid

In the Wadra Presidency Guntur is the largest assembling centre for cigarette tobacco In fact Guntur is the only place where eigarette man ifacturers can purchase sufficiently large quantities of unmanufactured obacco Major part of the Virginia leaf in the Guntur area is purchased by the Indian Leaf Tobacco Development Co Ltd who have got extensive arrangements for buying and stor age The remaining portion of the leaf is assembled by individual merchants who export fairly large quantities to the United Kingdom, Japan and other countries Except in the case of those who have entered into contract with the Indian Leaf Tobacco Development Co, Ltd there are very few growers who take their tobacco for sale to Guntur market Purc lases are made entirely in the villages by the manufacturers and Guntur exporters Palghat appears to be the largest assembling market for chewing tobacco while Gudivattam is the principal centre for pit cured tobacco. Madras city is also an important as embling centre for all types of tobacco meluding that meant for export. The extent of total business in Madras is estimated at about 2 lal hs of maunds per year. In the southern part of the Presidency the largest assembling centres are Erode Trich nopoly and Madura The marlets at Rajahmundry and Cocanada are the princ pal assembling centres for Lanlas tobacco In all these marl ets the ellers are mostly merchants who have made their primary purchases in villages. The warehouse of each mer chant or commission agent acts as a marl et. There is no common vard or space in any of the e markets where a large number of sellers as emble their tobacco for sal

Similar are the conditions in the Vorth Bilar area. The more important centres for assembling and distribution are Muzaffarpur Darbhanga. Dalsingsarai Khijauli Barli Shahapur Patoree and

Patna In all these places the arhatiya's godown serves the purpose of the marlet At Dalsingsarai the Indian Leaf Tobacco Develop ment Co has got its purchasing depot but it is understood that the purchases of Bihar leaf for eigarettes have largely declined during the past 3 or 4 years Delhi is an important centre of trade for all types of unmanufactured tobacco excepting the eigarette eigar and cheroot leaf

In the United Provinces the principal assembling and distribut ing centres are Farrul habad Benares Lucknow Biswan Mainpuri Budeun Kampil Meerut Bahraich and Moradabad At Farrukh abad there is a regular mariet for tobaeco located at Lalsarai where as many as 13? arhatiyas operate In all these markets however there is no common place for assembling tobacco and the arhatiya's warehouse serves as a marlet In the Punjab the local produce forms a small part of the total tobacco supplies in the province all the towns excepting Hazro no separate market exists for tobacco and business in many places is carried on in the shops of commis son agents in grain markets The principal assembling centres for the tobacco produced in the North West Frontier Province are Peshawar and Hazro the latter being far more important

In Hyderabad assembling centres for other agricultural produce also serve for tobacco Large quantities are naturally assembled at the e places where bids and other tobacco products are manu factured Hyderabad city Narsingee Gulberga Yadgir etc are large centres of bidi manufacture and as such act as large assembling markets for tobacco The other assembling centres are Warangal Bidar Raichur and Latur In all these marlets tobacco is sold through an arkatiya at his godown by the village sakukars or money lenders and petty dealers who make their primary purchases in villages In Mysore Ravandur is the most important assembling centre in the southern tobacco area of the State There are about 3 important wholesale merchants and about a dozen more smaller merchants In the northern tobacco area of the State Sira is the most important assembling centre the other markets being Rampur light and Alur In all these markets it is the village merchants who bring tobacco for sale through brokers The shop or a godown of an individual brol er serves the purpose of a market place conditions in Baroda State are similar to those existing in the Charotar area

In upper Burma the principal assembling centres for the locally produced tobacco are Mandalay Palokku and Myngyan The quantity of tobacco which annually passes through these centres is quantity estimated at 1500 tons each for Mandalay and Pakokku and 800 tons 300 tons for Myngyan In all these centres there is no regular open market for tobacco and the warehouse of the stockist and com mission agent is the place where the produce exchanges hands

(2) ORGANISATION AND CONTROL

It is therefore obvious that except the weekly municipal market at Aipani, all tobacco markets in India and Burma are privately owned and as suen there is very little organisation and control In fact it appears that of all the commodity markets tobacco markets are the ones most di organised requiring control measures almost immediately. The markets at Viponi, Jayasingpur and Sanji appear to be the only cases where attempts have been made for organilation. Merchants operating at Viponi established a Merchants Learue in 1919 which fixed the units of sale, rates of commission charges deduction to be made from the gros weight and other miscellaneous charges. The rates of discount for immediate payment as well as interest rates on overdues were also fixed by the Learue. The rules stipulate that no member of the League may deal with any per n who has not cleared his accounts with another member of the League. The Vierchants Association also works on similar lines as at Viponi. The rates of deduction from gross weight, and the rules governing samples discount et a real and down.

Several attempts appear to have been made by the Sangli Darbar to regulate the Sangli market. A scheme for the regula tion of market practices in the Sangli market was put into operation as an experimental measure in 1917 By 1921 the scheme was made permanent since it had shown good results during the trial period. In 1927 merchants and farmers made representations for certain charges and the Sangli Darbar appointed a committee to look into the matter and make recommendations Accordingly a Commercial Crops Market Bill was drafted and presented to the Sangh State Ryot Assembly in its meeting in September 1933 The Assembly referred the Bill to a select committee and finally passed it in May 1930. But owing to strong opposition from the local merchants it failed to receive the assent of the Raji Saheb of Sangh and was therefore dropped The commercial crops which were to come under the purview of the Bill were cotton, tobacco, Jaggery, turmeric groundnut and a few other commodities. The chief provisions of the Bill were (i commercial crops could not be sold or purchased except at a licensed market place , (11) each market com mittee was to consi t of 7 members out of whom three were to be elected from among growers or nominated by Government from amongst the growers two were to be licensed operators and one was to be a nominee of the local self governing body. The Chairman of the committee was to be nominated by the State Government The market committee could regulate storage of commodities in the market place and was to make rules regarding trade allowances units of weight deduction in gros, weight arbitration of disputes etc

At present the Sangli market is regulated to a certain extent by the rules made by the Sangli chamber of commerce. These rules stipulate the time of opening and closing of the market-place the order of sales the units of bargaining conditions of sale, allowances in weight ete. Rules have also been framed regarding the rate of discount and interest. It is thus obvious that in all the three markets Nipani, Javasingpur and Sangli, attempts towards organisation have been made more from the point of view of merchants operation.

ing in these markets rather than from the point of view of the growers or sellers

In no other tobacco markets such attempts appear to have ever been made Growers who prefer to sell in a market are extremely few, firstly because there are no regular open markets and the warehouse of the commission agent serves as a market and secondly because sales in markets are, in many cases followed by disputes The most fruitful sources of disputes are the methods of weighing, quality variations in the lot offered for sale and the various deduc tions and allowances The weighman even in villages generally tries to favour the buver and in some areas it is alleged that buyers enter into contract or agreement with the weighman so that the latter might underweigh the produce In the village however the grower is more free since he can more conveniently refuse to sell if the terms offered by the buver are not favourable But even here he cannot possibly afford to wait for a long time for another customer because the tobacco leaf is liable to deteriorate in quality in the absence of proper storage facilities If he takes his produce to the market, he is very often forced by circumstances to accept the terms offered by the buver, because the commission agent generally favours the buyer and it is inconvenient to take back the produce to the village If he waits at the commission agent s godown for another buyer to come, he generally finds that the other buyer already knows the terms offered by the previous one In the Nipani market, disputes regarding weighment and quality are very common and in case the seller does not agree to the terms offered by the purchaser, he is to wait till the subsequent market day, that is for a week or to take his produce to a commission agent's godown and request him to effect a sale the majority of cases, prefer to accept the terms of the buvers rather than take the produce to a commission agent's godown for sale Sometimes different weights are used for buying and selling as in the case of some markets in the United Provinces The market charges and allowances in kind or cash are far too numerous and complicated, particularly in the two tobacco growing areas of the Bombay Presidency, and these vary not only from one district to another but also from village to village and from one commission agent to another in the same market On account of variations in market charges and allowances it is but natural that the growers prefer to sell their crop in villages where they are not subject to onerous market charges In the Charotar area where the rate of discount varies in different villages from 2 to 15 per cent on the gross value, it is noticed that the buyers are generally not keen to make purchases in villages where the customary rate of discount This therefore acts as a handicap for these villages the other hand, the visiting buyers have to be very alert and keep themselves in touch with the current rates of discount and market allowances in all the tobacco growing areas so as to be able to secure the largest advantage

Except at Sangli, there is no system of open auction followed in any of the tobacco markets in India and Burma. At Sangli a part

of the bidi tobacco locally l nown as 'angad' or 'chura' is sold by open auction. In all other markets the sale is by private treaty

On account of the fact that there are no organised and open markets and that the different types and qualities of tobacco have not yet been defined market intelligence service with regard to supplies and prices is non existent and difficult. In consequence growers have to accept the prices offered to them by the buyers. It appears therefore that organisation of regulated and open markets at a few centres in the principal tobacco producing areas of North Bengal Cla otar Apani Guntur and North Bihar would be advantage us If such open and regulated marlets are organised it would be possible for the grower to know the extent of the market price realised by him and whether he has secured more or less than his neighbour. The practice might also encourage the growers to grade their tobacco leaf if they find that better quality fetches a higher price in an open marlet. The regulation of markets may be done on the lines adopted for the regulation of certain types of markets eg cotton markets in Bombay Central Provinces Hyder abad State and Madras The control measures should include such items as the appointment of a representative market committee standardisation of weights and methods of weighing as also of market charges and other allowances in cash and kind. All middlemen and buvers operating these regulated marlets may be licensed by the market committee under certain conditions

E -Finance of assembling

(1) VILLAGE baniya OR MONEY LENDER

The village banuga or money lender as by far the most important source of borrowing for the growers. Advances for the growers current financial requirements are mostly given on promissory notes in the case of substantial growers and on pledging land or gwellery in the case of others. The rates of interest vary in accordance with general credit of the borrower the digree of his necessity the nature of security offered and the general rate of interest prevailing in the locality.

Except in Burma it is not the general practice for the village money lender to give loans specifically against the tobacco crop Vinney is advanced as a general loan and the rate of interest charged ranges from 10 to 21 per cent per annum in the North Bengal and North Bhara areas 9 to 12 per cent in the Guntur area and 18 to 37 per cent in the United Prounces. In the Charotar area the majority of the tobacco growers appear to be financially well off A few of the lower class growers like the dharadas in this area take loans from the local money lender on the security of lands or orms ments the rate of interest charged being 12 to 15 per cent per annum

The method of horrowing specifically against the tobacco crop sever common in Burma and it is understood that most of the tobacco growers take advances from the local moneylenders who are also tobacco merchants. The borrowing commences often enough

before the season has begun and continues in driblets from month to month as the cultivation progresses The loans are of two main classes those which carry conditions in regard to the disposal of the crop and those which in this respect are unconditional The latter tyle of lean represent borrowings taken on the security of land house and jewellery and as such are limited to the borrowers of substance The rites of interest at Re 1 to Rs 2 per cent per month is considered comparatively low The form of loan which s more general is that taken from lenders who have an interest in the disposal of the erop or even manufacturers

The lenders may be village brokers truders In their simplest terms these loans may take the form of advances bearing an interest at 11 to 21 per cent per month the lenders being given the option on the borrower s erop at current rates or in the so called more friendly cases an advance free of interest conditional on the borrower selling his crop to the lender at about Rs 3 to Rs o per hundred viss below the market rate Conditions such as these however are enjoyed only by the cultivators of standing For the small tenant cultivator finance is harder Usually he takes loans on hee pe basis the amount borrowed being converted into tobacco deliverable after harvest at a stated price which generally represents from half to three quarters of the price reah ed by the grower for his previous erop Enquiries indicate that majority of tenant cultivator habi tually pledge part of their crop in this way at any rate from other factors the conditions of the loan given to tobacco growers depend also on the quality of and demand for tobacco leaf produced in different areas In the Shwegyin taung bet kan area, for example where the tobacco produced has a keen demand every inducement is offered to the tobacco grower to take loans and pledge his tolacco In the adjacent Shwegyin tan hise area however where the quality of the produce is inferior there is less eagerness to advance money and hence the rate of interest is high being about Rs 3 per cent per month with the additional condition that all the tobacco obtained shall be sold through the lender either at a fixed price or with a brokerage fee of Rs 2 per hundred tiss

(2) MERCHANTS AND COMMISSION AGENTS

The small village merchants are very largely financed by the commission agents and merchants from nearby large markets. The commission agents from large markets where the substitution of the value of the protection of the protection of the value of the protection of the value of the protection of the value of value of the value of th

rillage brokers with or vithout interest and the latter in turn lend out at higher rates varying from 12 to 24 per cent per annum. Altogether about 8 labs of rupes per year are said to be so advanced. In the Guntur distrut the Indian Leaf Tobacco Development Co. Ltd advances mones to be someware to about Rs. 100 to Rs. 200 per head. They also arrange to supply coal for the working of flue-curing barns. A few of the other merchants at Guntur also advance money to barn-curiers at about Rs. 100 per barn. There is however now a general tendency to do away with these advances either to the village broler or curier.

In the Guniur area the built of the export trade is financed by the exporters themsives though a few of the exporters got advances from their London leaf brokers at about 6 per cent per annum up to about 70 per cent of the value of their leaf lying in the United Kingdom bunded warehouses

In other areas, the upcountry buyers of unmanufactured tobacco generally remit the value of their purchases to their respective dalals and arhativas long after the receipt of goods. In a large number of the local commission agents and upcountry buyers have account, with each other which are finally settled usually once a year at the time of Dingli te in October Sovember. The growers and other sellers of tobacco on the other hand are anxious to receive payments as early as possible after sale. The local and village datals who arrange for the sale of grover's tobacco give him an oral undertaking for paving the amount of sale proceeds within a specifi d period which may range from a week to even six months according to the custom prevailing in different tobacco producing areas except in the Guntur area where the cigarette leaf buyers pay the growers almost immediately or at most within a few days after sale In Lengal and Bil or the grovers are usually paid within about a f rinight while in other areas the sellers receive payment north within about a month after sale. These payments are ger erain made by the local dalals and arkativas, from their own funds I mg before the receipt of money from the purchasers

The dalats and arhatiyas therefore shoulder great responsible of financing the assembling and distribution of this produce as they arrange to pay the sellers their sale proceeds within specified periods and, on the other hand, supply the produce on credit to their cheats. In addition they provide facilities in the form of godowns and processing factories. Thus the dalats, arhatiyat and local merchants have to invest large sums of money in their busines. The required capital is raised by them out of their own savings or taking advances, from purchasers. The amount of advance taker some a buyer depends upon his credit the volume of his purchase and his connections with his dalat in Librar and Bangal for sample, many dalats take advances from their buyers to the extension 25 to 600 per cent, of the value of purchases. An advance payment of a part of the price is considered essential from new and in known purchasers or from buyers of doubtful credit and in such assets the dalate is realized by the dalate by sending the railway cases the railway sending the railway cases the such as the

invoice of the consignment by value payable post In case the buyer fails to accept the railway invoice the deposit amount is considered forfested to the data! In many areas il e interest on the capital myested by the dalais, arhatiyas and warehousemen to make pay ments to the sellers before the receipt of sale proceeds from the buyers is conveniently passed on to the sellers in the form of dis count The rate of this discount may be as low as 21 annas per hundred rupees in the Farrul habad market of the United Provinces to as high as 18 per cent on the gross value in the Charotar area There is no fixed rate of discount or tatav as it is locally called in the Charotar area It varies practically from village to village and even in the same village it is not stationary for all the time understood that the rates of tatav have steadily increased during the last 20 or 30 years The rate of tatav varies from 2 to 15 per cent or even to 18 per cent Similar are the conditions in the Aspani area though the discount rates are much lower If the dalals and arkatiyas pay the sellers within four days of the sale a discount of 4 per cent is charged Afterwards the rate of discount is 3 per cent up to two months If payment is made after two months no dis count is deducted. If the buver males payment for his purchases within the stipulated period of two months he claims this discount Such occasions are however few and as the majority of buyers pay long after the two months period the discount is usually retained by the dalal or arhatiya In the Sangli market the purchaser has to pay to the datal the price of tobacco within a month after sale If however eash payment is required before this period of grace expires a discount of Rs 190 per cent is allowed to the buyer Similarly when the seller demands money within a month after sale the amount is paid to him after deducting a discount of Rs 190 per A similar method of allowing discount is followed at Jayasingpur except that the rate of discount is Rs 320 per cent

(3) Shroffs

Choffs or nd renous bankers do not appear to play any active part in the assembling and distribution of tobacco

(4) BANKS.

Banks usually hesitate to advance loans against tobacco because of its highly combustible nature and the possibility of its deteriora ton m quality during storage Besides it is found difficult to assess the value of tobacco in the absence of any definite system of classification cation and dependable price data However some of the merchants borrow money from the local banks on personal security or against Government paper or real estate Thus in Travancore the Jaffina tobacco merchants who trade on commission basis and who have to make advance payments up to about 75 to 90 per cent of the value of tobacco within 2 months of the receipt of tobacco do so by borrow ing from the local banks on personal security at about 19 per cent interest Some of the banks in Quilon allow overdraft facilities to tobacco merchants who deal with them regularly Banks as a rule do not give any advances to tobacco growers.

(5) CO OPERATIVE SOCIETIES

The co operative organisation has developed mostly along the credit side all over the country and the non-credit activities form a very small part of the co-perative movement in India Co-operative societies have not so far taken any direct interest in the marketing of tobacco in any part of India and Burma, except to a small extent in the Wipani area

In the Nppan area the Belgatim District Central Cooperative Bank has made arrangements to give advances against tobacco stocks at Nipam. As will be explained later in the chapter on "Storage and Stocks", about 3 lakhs of rupees were advanced against tobacco stocks by this bank in 1985 36

INTER-CHAPTER FIVE

There is a striking absence of regular markets for tobacco in the producing areas. Not more than 10 per cent of the produce is sold by growers in properly, established markets. The big bulk of the crop is sold in the villages either standing in the field or after curing At least three fourths of the growers in the Vipani area, for example, and more than one fourth in North Bihar sell their tobacco as a standing crop. Selling cured le, on contract is, on the other hand, a common method in the case of Vriginia eigarette tobacco grown in the Guntur area.

The market charges in the villages are scandalously high and very numerous. In the Charotai area of the Bombay Presidency for example a grower pays in kind and eash about Rs. 15 on every Rs. 100 worth of tobac o which he sells and in some cases even more than 20 per cent. More than half of those marketing expenses are due to allowances and deductions in weight.

The so called tobacco markets are generally secondary markets for assembling and distribution where merchants and warehousemen bring tobacco purchased by them in villages. Even in such cases there is no one central place where the produce is collected in large quantities as happens in the case of wheat or cotton Generally the warehouses of the dalals or arhatiyas serve the purpose of a market

Appan is apparently the only place in India where the local municipality has provided one common place where the village tobacco is assembled for sale once a week (Thur-day) All other tobacco markets in India and Burma are privately owned and no attempt appears to be made for their organisation or control except at

Nipani, Jayasingpur and Sangli where trade and market practices are to some extent governed by the rules framed by the local merchants' associations

It is essential that regulated and open markets for tobacco should be established at a few centres in the principal tobacco producing areas of North Bengal, Charotar, Nipani, Guntur and North Bihar

Sangli, where at present a system of open auctions is in vogue, is the only place where attempts have been made to establish a regulated market for tobacco, but unfortunately owing to strong opposition from the local merchants, the Sangh Durbar had to drop the Commer cial Ciops Market Bill which it was proposed to introduce It will be interesting, therefore to follow the pro gress of the Madias Government in attempting to intro duce regulated markets and open auction floors in the Guntui district In this case, however, it would appear that the bulk of opinion, both growers' and merchants' is in favour of the proposal Perhaps this may be asso crated with the fact that marketing expenses there are already comparatively low being only a little over 5 per cent as compared, for example, with the charges at Nipani which amount to 121 per cent That there is still room for reduction is apparent from the fact that the market charges in Nizam's Dominions appear to be only a little more than 21 per cent

The provision of credit is a very important factor in the marketing of tobacco. Manufacturers and distributors who buy tobacco from or through the commission agents in the producing areas do not generally partillong after the leceipt of goods. Indeed in many cases the accounts are only finally settled once a year, at Divud's in October November. The local dadals who arrange for the sale of growers' tobacco generally only give an oral undertaking to pay the full amount of the proceeds over a period ranging up to six months according

to the custom prevailing in the different producing areas Growers generally have to wait about a month before receiving payment from the local dalal or arhatiya. In those cases where the arhatiyas or warehousemen pay growers before sale proceeds are received, the interest on the sums outstanding is passed back to the seller in the form of discount which may be as low as Re 0 2 6 per Rs 100 in the Farrukhabad market of the United Provinces, or as high as Rs 18 per Rs 100 on the goes value in the Charotar area

Steps are, therefore, necessary to improve the facilities for financing the crop Shroffs and indigenous banks do not appear to play any very active part in this business and joint stock banks usually hesitate to advance loans against tobacco because of the difficulty of assessing its quality and value and the possibility of its deterioration during storage. Two things are, therefore, essential, the systematic grading and standardisation of tobacco and the quotation of prices on the basis of those grades so that banks and others might know the value of the produce against which they would be expected to make advances, and the other is the provision of dry, rain proof storage where temperature, humidity and insect damage can be controlled.

Co operative societies have not so fai taken very much direct interest in the marketing of tobacco except to a small extent in the Nipain area where, it is interest ing to observe, the distinct central co operative bank arianges loans against tobacco stocks and about Rs 3 arianges loans against tobacco stocks and about Rs 3 lakhs were advanced in this way in 1935 36. This lakhs were advanced in this way in 1935 36. This cample seems worthy of study. No system of cooperative sale appears however, to have been developed so far

The question of finance seems to be even more acute in Burma where it is understood that most of the tobacco growers take advances from local money lenders who are also tobacco merchants and such loans bear interest at the rate of 1½ to 2½ per cent per month

The position is perhaps not much better in the tobacco areas of India although in those cases the moner is advanced as a general loan and not specifically against the tobacco crop. The rate of interest charged varies from 15 to 24 per cent per annum in North Bengal and North Bihar areas. 9 to 12 per cent in Guntur and 18 to 374 per cent in the United Provinces. These terms seem appallingly onerous and should be capable of being reduced by organised banking and better arrangements for storing and marketing.

CHAPTER VI -- CLASSIFICATION, GRADING AND STANDARDISATION

A —General

It will be observed from what has been stated in the earner chalters that in the absence of any definite system of classification and grading the position of tobacco trade in India and Burma has become extremely confusing and unintelligible Official price quolations are obviously of no commercial use in the trade between apparently all that can be expected under the existing conditions producing and consuming centies of trade In order to enable information to be published for the benefit of sellers and buvers a dependable system of price quota tions ought to be worled out If this could be done it would bring the producers and the consumers into closer contact. The caist ing vstem is such that the quality of the article in each type varies from one merchant to mother The tactors that determine the quality are however well known and it should be possible to define the various types classes and finally the grales in accordance with tlese factors

The advantages of grading are obvious It helps in the collection and dissemination of market information establishing marketing and futures transactions and sav mg he marleting and transport costs on useless materials adoption of standardised grades has a spec al advantage in tobacco trade As is well known a tobacco smoker is conservative with regard to his smoke and the trade of leading manufacturers depends t a large extent on the continuity of their standardised products from year to year Violent fluctuations of quality are not there fore to the ultimate advantage of the parties concerned in the tobacco trade—the grower the manufacturer and the smoking public It may be however stated at the outset that apart from the efforts being made since 1936 by the Central Marketing Staff n co operation with the Provincial Varketing Staff to standardisthe grades of cigarette tobacco leaf to which a reference will be made later there are no standardised grades for any of the different types of tobacco produced in India and Burma as in other important Disco producing countrie life the United States of America Rhodesia and Canada

At the same time it may be observed that the problems of grading tobaceo are extremely complicated and appear to be almost hope less to the inexperienced. It appears that of all the agricultural that the problems of the products tobacco requires the greatest degree of skill and knowledge products tobacco requires. Products like wheat oilseeds, and furtist in the matter of grading. Products like wheat oilseeds and furtist on the matter of grading are easier to grade by mere mechanical sorting according to size and set discovered to the product of the produ

quality factors are extremely difficult to judge for the mexperienced, as for instance colour texture and strength Besides a particular quality factor which is of great importance in one type may not be so in the case of other types. Thus while lemon yellow colour is considered of paramount importance in cigarette leaf, it has absolutely no value in fact it would be a defect in tobacco intended for eight cheroot bidi hookah, chewing and snuff The farmer who grows a particular type of tobacco and the merchant and manufacturer who deal in that type however know by their long experience and practice how to sort the leaf of that type into different qualities So far as tobacco grown in India and Burma is concerned such sorting practices adopted by growers merchants and manufacturers are vague and not easily definable in the case of some types (eg, bids powders) while in the case of others (eg, eigarette leaf) the factors of quality taken into account in sorting are fairly specific and capable of being standardised As a first step toward, grading and standardisation therefore it would be desirable to select only those types and clase in which the growers merchants and manufacturers have made some progress in the matter of sorting according to some definite quality factors. It would be however desirable to discuss in brief the existing methods of classification and sorting adopted for the everal types produced in the various parts of India and Burma

B-Present practices of classification and grading

All commercial types of tobacco grown in India and Burma fall into 2 general groups namel: Vicotiana Tabacum and Vicotiana Rustica and the big bulk of the crop max be simply classified as below in accirdance with the present practices followed by the growers and traders

Туре	Class	Principal areas
h scotsana Tabacum—		
I Cigarette	1 Virginia	Guntur Mysore . Saharanpur
	(a) Flue cured	Jhansı and Satara areas
	(b) Sun cured	
	2 Country (Natu)	Mamly in the Guntur area and to a small extent in Bihar
	(a) Flue-cured	
	(b) Sun cured	
II Cigar	3 Unkappal	Trichinopoly and Combator districts
	4 Rangpur	Rangpur and Cooch Behar

	200	
Туре	Class	Principal areas
III Cheroot	Mamly the bheng: variety of jali 6 Usikappal	Rangpur and Cooch Behar areas Trichmopoly and Combatore districts Madura district Us in this group and may be sub
IV Bidi powder (Bhuko or Chura)	(a) Kun ywa hse (b) Shwegyin and Burmese Havana	Charotar and Dan
	(b) Lilro 9 \ipani (a) \ipani	Belgaum Satara and Kolhapur
V Hookah	(b) Sangli 10 Mysore 11 Jati 12 Dess	North Bengal and Cooch Bebar Bihar L P and Punjal North Bengal and Cooch Bebar
VI Chewing and	snuff 13 Jati 14 Desi 15 Meenampalayam 16 Mysore	Bihar and the U.P. Combatore district Mysore
Nicotsana Rustica— VII Hookah and	-	North Bengal and Couch Bel s North Bihar Up Punjab and Dell
VIII Snu"	20 Naswari	/ W 1 1

The quality characteristics of the principal types and varieties have already been described in the Chapters on Supply Appendix LXI shows certain physical and chemical characteristics of cured tobrece leaf produced in India and Burma based on the results of physical and chemical examination of several commercial samples of tobacco obtained from different parts

(1) NICOTIANA TABACUM

- (a) Cogarette leaf—(i) Virginia flue oured—The most dear able quality factors of Virginia flue cured leaf are bright lemon yellow colour fine and sith, texture like a thick handl erchief good size no blemish mild strength slow regular and continuous burning character white ash and pleasant or neutral aroma.
- In the Gustur area the colour of the leaf ranges from bright lemon to redds! brown with fine sully and full to thin texture the size being 12 to 18 inches long and 6 to over 9 inches broad. In the case of growers who contract with the Indian Leaf Tobacco Development Co Ltd to deliver leaf of different qualities at prospecified in the contract the cured leaf is sorted into 5 grades as below.—
 - Vo 1—Leaves of bright lemon or golden vellow colour good texture without any sponginess and other blemishes and with yellow veins
 - No 2—Colour and texture nearly the same as in No 1 but with greenish veins and small greenish patches
 - No 3-Yellow with greenish and brown patches in places
 - No 4—Leaves of reddish and green colour not well cured

Vo 5—Seraps and rejection but not sweepings or dust
In the case of other glowers, it is the usual piactice to bele the
leaf without grading but after removing trash and spoiled leaves
The method of grading adopted by exporters varies from one mer
chant to another. The principle adopted is however the same the
grades being arranged from bright lemon yellow colour without any
blemish to leaves with vellow colour wingth blemishes and finally
to darker green and mahogany shades. They go under different
names given by midvidual exporters as extra light number one to
three or extra light seem light and light brown. The purchase
grades of the Indian Leaf Tobacco Development Co. Ltd are not
the same as those made for export. The company rearranges the
purchased leaf into several grades in accordance with the require
ments of its constituent manufacturing firms in India and England

It is therefore apparent that the present practice of grading the leaf surface Texture receives the next consideration while no sorting is done according to the size of the leaf. The same practice is followed in other areas: viz Mysore and Sahtranpur

The colour of the Mysore leaf ranges from bright lemon to green with fine silky to thin and papery texture The length of the leaf

is 10 to 18 inches and the breadth 4 to 12 inches. The Mysore Tobacco Company Limited sorts left into the following six grades though the 1937 crop was sold in an ungraded bulk to manufac turers -

No 1-Leaf with bright lemon vellow colour and no blemish

No 2-Leaf with light yellow colour and no blemish

No 3 -Leaf having bright or light yellow colour with small greenish or orange coloured patches

No 4-Same as No 3 except that the greenish or orange coloured patches are larger

No 5-Leaf having green colour

No 6-Broken leaves etc

The leaf grown around Scharanpur has almost the same quality characteristics as that produced in the Guntur area The few growers sort their leaf into 4 grades as below -

- No 1-Leaf with lemon vellow colour good texture and with practically no brown or dark spots
- No 2-Leaf having almost the same colour as in No 1 but with larger proportion of brown or dark spots or having slightly deep yellow colour tending slightly towards brown
 - 10 3 -Leaf with slightly inferior yellow colour with greenish tinge and having more spots than the leaf of Vo 2
 - No 4-Leaf having more green colour than vellow

The small quantity of eigarette leaf produced in Satara district of the Bombay Presidence is inferior to that produced in other areas The colour ranges from vellow to hight brown texture being medium to thick but fine The size is small being 9 to 10 inches long and 5 to 10 nehes broad No systematic efforts are made towards sorting the leaf

- (11) Virginia sun-oured -Guntur is the only area where sun cured Virginia leaf is produced though in rapidly declining quantities owing to the rising prices of flue cured leaf during the past 3 years The size of the leaf is the same as that of the flue cured leaf the colour ranging from light to darl brown Exporters generally sort the leaf into three grades us (1) Virginia red or light brown (2) Virginia green or brown with green patches and (3) Virginia dark or dark brown
 - (m) Country (Natu), flue cured -On account of the rise in the prices of Virginia flue cured leaf the production of country (Natu.) flue cured leaf has been continuously declining during the last 4 years and has now practically reached a vanishing point. It is years and that now practically reached a vanishing point it is understood that with the rise in the area under Virginia flue-cured

leaf country flue cured tobacto will no more be produced in the Guntur area . It is not therefore worth discussing the quality factors and grading practices of this type of leaf

(iv) Country sun cured — The important quality factors in judging the country sun cured eigarette leaf are the colour texture and freedom from blemish

The country (Notu) tobacco of Guntur is the most important for cigarette manufacture. The leaf is light to dark brown in colour medium and phable in texture 10 to 18 inches long and 6 to 9 mehes broad. It has mild strength and pleasant aroma. The exporters usually sort the leaf into three grades according to colour into light brown brown and dark. Some of the leading exporters however adopt 4 or 5 grades like bright light brown light dark heavy brown and heavy dark. Texture and blemish are next in importance. The country (des) leaf from Bihar is about 15 to 18 inches long and 6 to 9 mehes broad yellowish brown in colour and medium in exture. It is mild in strength but sometimes has an earthy flacour Usually the middle leaves called murhon of the des tobacco are sold to manufacturers of cheap eigarettes. No further sorting of murhon appears to be in practice on the part of the growers or merchants though eigarette manufacturers further sort the leaf into 2 or 3 grades according to colour.

(b) Cigar leaf—The quality characteristics desirable in eigar tobaccos are light to dark brown colour thin to medium and pliable texture good size freedom from blemish mild strength slow regular and continuous burning character white ash and agreeable flavour. For wrapper purposes the leaf should be pliable with smooth and glossy appearance and thin vens and good length. Size is relatively unimportant for filler and binder purposes for which medium to thek textured leaves are considered tolerable.

The Usitappal leri produced in the Thehinopoly and Combator districts of the Madras Presidency is light to dark brown in colour thin to medium and pliable in texture about 18 to 24 inches long and 4 to 9 inches broad. No particular system of grading appears to be practised for this type of tobacc. The organ manufacturers make their purchases on samples from I nown merchants who have experience of the qualities desired by the various manufacturing firms. After purchase the manufacturers generally sort the leaf in accordance with colour texture and size or sometimes get the sorting done by merchants from whom they but.

The small quantity of eigar leaf produced in the Rangpur area of the North Bengal is greenish to darl brown in colour thin in texture about 10 to 22 inches long and 6 to 9 inches broad The leaf is sometimes sorted by merchants and manufacturers into four grades as below —

No 1 —Good sound leaf with brownish vellow colour and 20 mehes and over in length

No 2-Good sound leaf with brownish yellow colour and brown patches and 15 to 19 inches in length

- No 3—Good sound leaf with greenish brown colour and 12 to 15 inches long
- No 4—Any leaf without blemish and damage and below 12 inches in length

These are grades used for wrapper leaf For the filler and binder purposes the leaf is sorted according to size and the extent of blemish and damage

(c) Cheroot leaf —For cheroot making a leaf with light to dark brown colour, medium thickness medium to strong and agreeable layour and strength even burning quality and white ash is preferred

The 1st tobacco produced in North Bengal is greenish to dark brown in colour medium in texture 15 to 22 inches long and 6 to 12 inches broad. The leaf intended for export to Burma is first sorted inches broad. The leaf intended for export to Moulmein leaf with dark by colour and then by size. For export to Moulmein leaf with dark bown to almost black colour is preferred. This dark to black colour derived into three grades according to shades of colour the black coloured leaf forming the first quality dark of colour the black coloured leaf forming the first quality dark of colour the black coloured leaf forming the first quality dark of colour with second and reddish brown the third. These leaves are sometimes further graded according to size but this appears to are sometimes further graded according to size but this appears to eccasional For export to Rangoon leaves having yellowish brown to be occasional. For export to Rangoon leaves having yellowish brown usually sorted into four grades according to size and colour as below.

- No 1 or Chama —Leaf with brownish yellow colour with brown spots all over and above 10 to 22 inches long and 9 to 12 inches broad
- No 2 or Medi -- The colour and size are the same as in No 1 except that the brown spots are in patches only
- No 3 or Muzed -- Narrow and thin leaf 10 to 15 inches long and 5 to 6 inches broad with greenish brown colour
- No 4 or Mized -Smaller leaves and rejections greenish and dark brown in colour

The sand leaves known as bishpat are separately harvested and cured. They are then sorted out into two grades according to colour, etc. light brown and greenish brown. The light brown bishpat of jets tobacco is sometimes used in the manufacture of cheap cigarettes.

The quality characteristics of Usikappal leaf produced in Trichinopoly and Coimbatore districts are the same as those men though under eigar leaf. The Uonnakappal from Madura district is usually dark brown in colour than to medium in texture. IS to 30 usually dark brown in colour than to medium in texture and the state of the same of eigar tobaccos makes long and 6 to 12 inches broad. As in the case of eigar tobaccos produced in the Madras Presidency no definite system of grading appears to be practised for these two classes of cheroot leaf, the appears to be practised for these two classes of cheroot leaf, the manufacturers making their purchases mostly on the basis of samples

After purchase either the manufacturers or the merchants on their behalf generally sort the leaf in accordance with colour texture and size

The bernese element leaf is greenish to dark brown in colour thin to me hum and phable in texture 15 to 30 inches long and 6 to 15 inches broad. For the hum you have which is by far the most important variety the grading of the leaf is based on a combination of size and quality. In this latter thickness and body are the man considerations. The three chief grades are—

No 1—Hse gyr—Leates thick and big with a full complement of brown spots on both sides of the leaf. Venns mist be thun and the leaf elastic. This grade is further subdivided according to size into (1) Hse gyr years (2) Hse g,r knasa man and (3) Hse gyr-knasa hyr

No 2-Hee lat -As in No 1 but leaves of smaller size

No 3—Hse pa —Leaves may be big or small but are thin in body with few brown spots

For the Shwegyin and Burmese Harana the grades are based mainly on the consideration of size as below —

- No 1—Hse ggs or I a bat ggs—Leaf about 10 to 14 inches long with fine and pliable texture to serve as first class wrapper
- No 2—Hse lat or Ta but lat —Medium sized leaf about 18 inches long medium in texture
- No 3—Hse gale or Ta bat his -Leaf about 12 inches long with medium texture used as hunder
- No 4-A sa hse -Small leaves about 6 to 9 mehes long used
- (d) Bidi leaf—The most important factor determining the quality of bidi leaf is the strength. A good bidi tobacco should give a strong but sweet and mellow smole. The other important factors are colour and the ness. Orange to light greenish brown leaf with characteristics brown spots is preferred. The texture should be thick but not coarse so that the leaf may not break down to dust when being made into bid powder.

The bid leaf produced in the Charot ir and Baroda areas is thick in texture but not coarse 12 to 15 inches long and 5 to 9 inches broad. The lat tobacco is greenish vellow in colour with brown spots while the colour of the leaf is more or less green with a light yellowish tinge. Brightness or lustre is considered to be an important consideration and duliness of colour is supposed to be a drawback. The bid leaf produced in the Vipam area is stronger. The colour golden yellow to orange and light brown sometimes with brown spots spread on the surface of the leif which give the leaf an appearance of the sli no f a panther. The texture is thick but not coarse the size being about 12 to 18 inches long and 6 to 9 inches broad. No grading worth the name is done in both these areas. As

already described earlier in the chapter on "Preparation for Market", bid tobacco is prepared by roughly pressing the dried leaves so that they fall into small pieces. Leaves from the main crop, ration crop and sand leaves are cured, crushed and sold separately. The coarsely crushed leaves in which form the growers separately. The coarsely crushed leaves in which form the growers sell their tobacco, are further reduced to smaller sized flakes either sell their tobacco, are further reduced to smaller sized flakes either the same of the smaller sized flakes of the processors blend in varying proportions the bid; powders of different processors blend in varying proportions the bid; powders of different ages and quality which is mainly based on the strength and to some ages and quality which is mainly based on the strength and to some extent on colour also. Each processing merchant has his own blends which are designated by a number, as No. 80, No. 32b, No. 151, etc.

The small quantity of bidi leaf grown in the Mysore area is yellowsh brown in colour and medium in texture. The leaf is over 18 mehes long and 3 to 6 inches broad. The leaf is sorted according to size, the middle and bottom leaves on the plant forming the pinds which is considered to be the first quality. The top leaves and broken leaves form the second quality known as Mandua Chour Sand leaves and leaves obtained from the ratioon crop constitute the third and the lowest quality locally known as Taragu.

(e) Hoolah tobacco — A thick coarse leaf strong in flavour is used for hoolah. Other factors of quality like colour, size of leaf, used for koolah other factors of quality like colour, size of leaf with dark etc, are considered relatively unimportant though a leaf with dark brown colour is preferred.

The quality characteristics of jott leaf produced in North Bengal have already been referred to earlier When the jots leaf is intended for househ or chewing no systematic sorting is done. As in the case of the jot leaf exported to Burma, a few merchants however sort the leaf in accordance with the strength texture and colour

No sorting or grading of desi leaf is done to any appreciable degree except to some extent in the North Bihar area where sorting appears to be fairly widely practised by the growers and merchants in accordance with the position of the leaf on the plant. The main reop is roughly sorted after curing into three grades murhan or exp is roughly sorted after curing into three grades murhan or the ration crop is sold separately under the name of door. The ration crop is sold separately under the name of door The author and serves are yellowish brown in colour and medium in texture and strength. These are sometimes sub divided into 3 grades accord and strength. These are sometimes sub divided into 3 grades according to size. Leaves of raintigrade are greenish brown in colour and ing to size. Leaves of raintigrade are greenish brown in colour and to dark green in colour, coarse in texture and strongly flavoured to dark green in colour, coarse in texture and strongly flavoured.

The dess leaf produced in the United Provinces Punjab and the North West Frontier Province has similar characteristics being greensh brown in colour, medium to thiel and coarse in texture 6 to 12 mehes long and 3 to 6 mehes broad. The dess leaf of the United to 12 mehes long and 3 to 6 mehes broad. The dess leaf of the United Provinces is, however, considered superior in texture and flavour

(f) Chewing and snuff tobaccos -As already stated earlier in the Supply Chapter, there is no variety grown to any appreciable

(2) NICOTIANA RUSTICA

(a) Hookah and chering -The motihari leaf of North Bengal is greenish brown in colour, thiel coerse and wrinkled in texture 10 to 15 inches long and 6 to 12 inches broad \ o orting is done either by the grovers or the merchant, to any appreciable extent though manufacturers and retailers sort the lent according o treng h texture and colour betore manuarture or sale

The alayati lear produced mo thy in the Purper district of North Bihar is con idered to be very inferior quality lookah tobacco The leaf is dare brown in colour, thin and coarse in texture about appears to be done for this type of tobacco

The calcuttia leaf produced in the United Provinces Delhi and Punjab is greenish brown in colour medium to thick and coarse m texture, about 8 to 12 inches long and a to 9 inches broad sorting of any kind appears to be practised either by the growers or wholesalers except in some markets like Hazro in the Punjab where a rough classification is done by the wholesale merchants. In all these areas however the calcuttue leaf is prepared for the market in different ways and is sold separately The three different ways are tobacco bundles, tobacco ropes (russa) and tobacco powders The tobacco bundles are made of either the leaves or the whole cured plant Leaf bundles are partly used for chewing but bundles of whole plants, ropes and powders are almost invariably used for hookah, a very small quantity being used for snuff. The powders are of three distinct kinds, tiz, leaf powder powder of stalks and stems and powder made from the flowering shoots In the Delhi Province, the e three types of powders are called raddi pattili, raddi laldili and raddi churali At the time of making these powders by beating the tobacco plants with heavy wooden mallets on open fields, a considerable quantity of earth gets mixed with the powders and the raddi churaki in Delhi Province often contains as much as 50 per cent earth The merchants at Hazro classify the tobacco in the market as follows -

No 1-Jun -Bundles or whole tobacco plants

No 2-Pattar -Leaf or leaf powder

No 3-Raddi -Powder of stalks and stems

No 4-Katı or dhura -- Powder of leaf and stalks

No 5-Galla-bacha -Powder of flowering shoots

Each of these are further sub divided into three or four groups in accordance with strength, thickness of leaf and, to a small extent colour

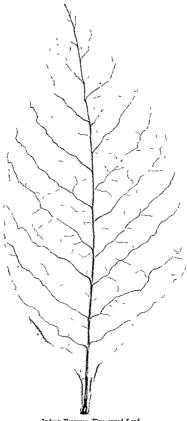
(b) Snuff —The nasuar snuff tobacco produced in the North West Frontier Provinces is brownish green in colour, thin to medium in texture, 10 to 12 inches long and 5 to 8 inches broad. The method of sorting adopted by the snuff manufacturers at Harro is based on the position of the leaf on the plant. The three or four top leaves (sarpatta) are used in the manufacture of superior quality snuff the lower leaves (mudapatta) being used for making the lower quality product

C -Suggestions for standardisation and grading

(1) GENERAL

The bull of the tobacco crop in India can be classified into 2 botanical species 8 commercial types and 20 classes These are sub divided again as in the case of certain classes of eigarette bids and There are sixteen classes of Nicotiana Tabacum hookah tebaccos and four of Accotiona Rustica These different classes have different quality character stics and different price levels and are quite different in this sense that a buyer who wishes to have one will not be satisfied if another is delivered to him instead towards bringing order out of the present confusion is for these 20 classes to be recognised and quoted in those marl ets where they are available and for traders to buy and sell on the basis of these descriptions It would be also desirable for the growers in any district or area uniform with regard to soil climate and rainfallto grow only that class of tobacco which has been found most success ful and become typical of the district or area so that the reputation of the area for that particular class may be built up The Agricul tural Departments might render necessary assistance in this respect by propagating the seed only of the type and class found most sutable in any one area. It would be also essential to see that the number of classes and varieties grown in any uniform area is reduced to the minimum

Even when the different classes are recognised there still remains a fairly wide range of quality and price within the class according to grade but the question of standardising the grades of tobacco under each class is far from being simple Apart from the several complex factors that constitute quality the area of production is the most important consideration taken into account by all the manu facturers before making purchases In consideration of the intro duction of grade standards therefore it must be recognised that the would apply to certain areas of production of fairly uniform type and quality The survey results indicate that there are quite a few such uniform areas where individual merchants follow their own system of grading based on certain physical factors of quality such as colour texture size etc But this individual grading almost always results in the same so called grade varying from one merchant or grower to another in the same place Even with the same mer chant or grower the specified grale varies from month to month and season to season and he generally bases his grades more on the type and quality of tobacco available with him than on any specific factors of quality It is on this account that big manufacturers always prefer to visit either personally or through representatives even areas of fairly uniform production to buy leaf in bulk at a flat rate and subsequently grade it to suit their requirements. In the interest of the development of trade it is essential to organise these individual attempts at grading into some definite standard system



Indian Virginia Flue cured Leaf Standard Grade No 1

(2) Suggested factors and system of grading

The following suggestions are made regarding the factors and system of grading the several types and classes -

- (a) Nucotiana Tabacum —
- (1) Cigarette tobacco-Virginia flue cured -As discussed earlier, the principal factors taken into account by the growers merchants and manufacturers in grading Virginia flue cured leaf are the colour, texture and the blemish The colour may vary from bright lemon to dull yellow with greenish tinge or reddish yellow. The texture may range from fine and silly to coarse and thin and papery while the usefulness of the leaf in manufacture would decrease with the amount of blemish on the leaf surface in the form of green colour spongmess, scalding brown and black spots disease etc into account all the possible variations in these three factors of quality, the flue cured leaf can be conveniently graded into five standard grades to which a reference will be made later

Virginia sun-cured -Similarly the Virginia sun cured leaf can be graded into three grades in accordance with variations in colour, texture and the amount of blemish on the leaf surface

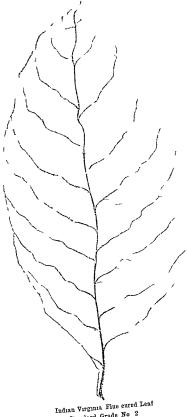
Country (Natu) -- Five grades for this type of tobacco are sug gested taking into account colour, texture and blemish

(11) Cigar leaf -The principal factors of quality with eigar leaf are the colour, texture, size and freedom from blemish. The small quantity of eigar leaf grown in the Rangpur area is at present being sorted by a few merchants and manufacturers into four grades based on colour, size and blemish Taking into account these practices it should not be difficult for the Bengal eigar leaf to be graded into four distinct qualities, based on the variations in colour size and the extent of blemish

The same procedure may be followed in grading the Usikappal eigar leaf produced in Madras taking into account an additional quality factor, texture Considering the variations in colour texture and the amount of blemish it may be possible to define about 5 grades for this type of eigar leaf

(111) Cheroot leaf -- The greatest possibilities of standardising grades of cheroot tobacco appear to exist in the case of Jati tobacco produced in the Rangpur and Cooch Behar areas of North Bengal The main factors for consideration in the grading of jati tobacco are the colour, size and the extent of brown spots on the leaf surface Each of the e quality factors has different importance in different markets By studying the quality requirements of the principal markets like Rangoon, Moulmenn etc. it should be possible to presentle at least three to four grades for each of the important consuming centres based on the variations in the principal quality

In the case of Usikappal and Meenampalayam cheroot tobacco factors produced in Trichinopoly Combatore at 1 Madura districts the



Standard Grade No 2

In the case of calcuttra leaf produced in the United Provinces. Puniab and Delhi it is difficult to suggest at this stage any system of grading for powders and ropes The method of preparing the produce by pounding the whole plant into powder on open fields encourages the mixing of earth, and in De'hi Pro mee alone at is estimated that the earth so colle ted amounts to about 2) per cent of the total weight of tobacco Further enquiries made in this respect indicate that the growers would gain considerably by celling their produce in the form of bundles composed either of leaves or whole plants But the growers generally prefer to make the tobacco into lowder. It would appear that there would be some advantage in putting the powders of the different parts of the tobacco plant on be market free from earth Manufacturers and buvers in Delhi City are in favour of a change of practice by the local growers on this line and they lave expressed the view that it would in fact pay the growers to do so The growers and the village merchants on the other hand are inclined to take a different view and claim that the total sum r ceived for tobacco and earth are larger than would be re erved for cleza, tobacco They point out that the hookah manu facturers are accustomed to use a proportion of earth in making up their mixtures and on that account are not inclined to give up the practice of mixing earth with local tobacco. There seems to be no doubt that the reputation of the areas which are accustomed to mix a considerable quantity of earth in powdered tobaccos must be such that any individual grower who attempted to market clean produce would find it difficult to get a sufficiently high price to compensate him for the absence of earth and any proposal to raise the standard of quality by introducing suitable grades would have to meet a general agreement in the trade before it would be suc cessful For individual growers or merchants who are at present anxious to secure an enhanced price it would it is suggested be better to put their tobacco up in an entirely different form eg in juttic or bundles

form of leaf bundles instead of bundles of whole tobacco plants. The additional labour that may be required in plucking the individual leaves from the plant is not of much practical importance on pessant farms. Since there is a demand for the powdered stalks and stems the remaining portion of the plant can be crushed into powder and sold to hoolah manufacturers.

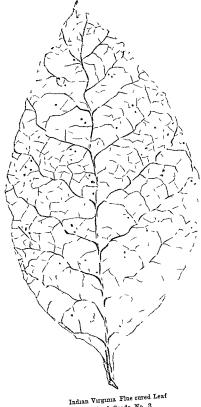
The first obvous step is for producers to sub divide their hooked tobacco and put the different parts of the plant on the market separately and the leaf should preferably be in the form of bundls but it is a matter for further investigation and experiment whether the calcutule leaf can be sorted into three or four grades in accordance with colour and thickness of leaf.

(ii) Snuff tobacco—The method of sorting adopted by snuff manufacturers at Hazro in the case of masium tobacco produced in the North West Frontier Province is based on the position of the leaf on the plant the 3 or 4 top leaves being considered superior to the lower leaves The quality factors generally taken into account are colour thickness and brittleness of leaf. The question of defining standard grades on the basis of colour and texture remains to be investigated.

(2) SUITABLE AREAS FOR GRADING TOBACCO

As a first step towards the introduction of grade standards for tobacco leaf grown in India such attempts might be made with a reasonable hope of success for following types

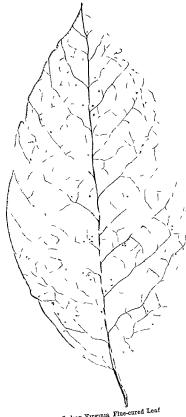
Class	Areas
Necciona Tabacum— 1 Virginis— (a) Fine cared (b Sun cured 2 Count y (\atu)— Sun cured 3 Unkappal— (a) Cigar (b) Cheroot 4 Monnakappal— Cheroot	Guntur Mysore Saharanpur Jhansi and Satara Guntur Trachinopoly and Coumbatore Madura



Standard Grade No 3

Class	Areas
	Rangpur and Cooch Behar
5 Jats	Two St -
(a) Rangpur cigar	t
(b) Bhengs cheroot	
(c) Chewing	
(d) Hookah	Bihar U P and Punjab
6 Dest-	Bihar O I ama
(a) Hookah	1
(b) Chewing.	1
7 Meenampalayam-	Combatore
Chewing	
8 Музоте—	Mysore
Chewing	1
Necotiana Rustica-	Goodh Behar
9 Motikars—	North Bengal and Cooch Behar
(a) Hookah	
(b) Chewing	
10 Vilayatı— •	North Behar
Hookah	, _a Dalhi
11 Calcuttra— · ·	UP Punjab and Delhi
(a) Leaf	
(i) Hookah	
(ss) Chewing	Į.
(') Powders—	\
Hookah	
(c Ropes—	
Hookah	,
12 Naswari—	N W F P
Snuff	tobacco, attempts might be made for Kun Burmese Hatana, in areas of Shwegyin

For Burmese cheroot tobacco, attempts might be made for Kun ywahse and Shuegyin and Burmese Hatana, in areas of Shwegyin and north of Thayetmyo



Indian Virginia Flue-cured Leaf Standard Grade No 4

Darbhanga and Trichinopoly areas and it is hoped that some I ind of standard grades might be tried in these areas as an experimental measure during the next tobacco season

(4) STANDARDISATION OF PACKAGES

Another problem of standardisation is with regard to the methods of packing adopted for the different types of tobaccos ages used for the indigenous types of tobacco appear to be satisfactory under the existing methods of trade and consumption tion of using standardised and better types of packages for Indian eigarette tobacco is, however important. At present the bull of the cigarette leaf exported by Indian exporters is packed in bales containing about 250 lb of leaf Since the bulk of the eigarette tobacco exported goes to the United Kingdom it would be desirable to consider the opinion of the United Lingdom manufacturers regard ing the advisability of paclung organette lent in bales. Most manu facturers believe that tobacco mitures better in the cal than in the bale and almos all complain that packing in bales results in greater breal age of leaf and therefore of waste more particularly when by mexperience the leaf is over dired. The American tobacco received in the United Kingdom market is almost invariably packed in casks of the 'tierce'' description weighing under 900 lb net or in cases The manufacturers always show a preference for tobacco that is packed in hogsheads casks and wooden cases and it is on this account that few of the Indian exporters have been export ng their leaf in hogsheads during the last 2 or 3 years. The bries and hogsheads used by Indian exporters are of fairly uniform size but with view to standardise these packages it would be desirable if the Indian Tobacco Association at Guntur also adopts standards for packages particularly for tobacco leaf exported according to the standards It would be also desirable to include provision in these rules for standardised methods of packing

D—Systems of grading in some of the important tobacco producing countries

(1) RHODESIA

After the leaf is removed from the flue curing barn it is roughly sorted into four grades according to colour tiz, bright medium dark and green. Each of these grades is arranged in separate bulks dark and green coloui is placed in one corner of the sixed as this bulk is the last one required for grading. The tobacco is this bulk is the last one required for grading. The tobacco is removed from the bull for grading starting first with the bright leaf. It is placed on tables in the grading shed where it is sorted out according to colour size and texture. On the table there are out according to colour size and texture on the table there are pursued or torm badb nerished or torm green spotted leaf and perished or torm badb nerished or torm green spotted leaf and sported leaf. The straight grade leaf is then collected for further sporred leaf. The straight grade leaf is then collected for further sub-division and tale not final sorting to another table with four divisions which are for Nos 1 2 3 and the leaf with green rings.

slightly perished or torn leaf is next graded out in a similar fashina and so on until the last of the grades from the six divisions has been dealt with After the bright leaf the medium leaf is dealt with then the dark leaf followed by the green tobacco. The graded tobacco is now ted into hands. Only leaf of similar grade and length is tied in the same hand of tobacco. Leaf under eight inches in length is not tied into hands but is packed in bales as loose leaf. There are 49 standard grades for flue cured leaf. Appropriate standard symbols have been adopted to designate the different grades.

(2) South Africa

Before the green leaves are threaded and cured they are sorted into the following classes according to condition and size, tiz, large, medium and small —

- (1) Nound whole ripe leaves—these are sorted into further classes according to size, viz, large medium and small
- Over ripe leaves if the quantity is exceptionally large, these are classed into two sizes
- (m) Broken leaves—those damaged by wind or eaten by
- (10) Green leaves-these are usually discarded

After curing all the broken green over ripe and mouldy leaves are separated from the rest. The sound leaves are then classed according to pickings size and colour

(3) CANADA

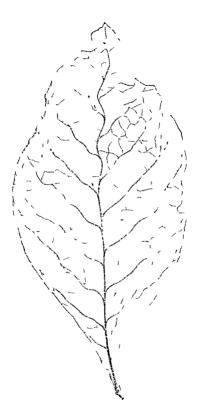
Ten standard grades have been adopted by the Ontario Burley Marketing Board for the Burley tobacco each grade being designated by standard symbols

The system of grading flue cured leaf is largely based on the methods followed in the United States of America

(4) UNITED STATES OF AMERICA

(a) Grades—The systems of grading different types of tobacco leaf in America appear to be the most claborate and comprehensive Under the authority of United States Warehouse Act and the Tobacco Stocks and Standards Act the Secretary of Agriculture has made rules regarding the classification and grading of unmanufactured tobacco According to this official classification all American grown boaccos are divided into seven classes. The first three classes are based on the method of curing the next three on the principal use for which the tobacco is grown and the seventh class covers all mis cliencous types not otherwise classified. These classes are — (i) Fine curred types (ii) are cured types.

Flue cured types
 (u) fire cured types
 (u) air cured types
 (u) cigar filler types
 (u) cigar binder types
 (u) cigar wrapper types
 (u) myseellaneous types



Indian Virginia Flue cured Leaf Standard Grade No 5

All tobacces imported from foreign countries like Cuba, Sumatra, Java, Philippine Islands, etc., are classed separately so that the foreign types practically form the eighth class

It is the first six classes which are important from the point of view of internal and international trade. Each class is sub-divided into types. A type is defined as a division of a class of tobacco may be a class of the divided aring certain common characteristics which permit its being divided more a number of related grades. The first six classes cover 26 miportant types with 2 to 6 types in each class. Of the 26 important types grades have been published for 23 types.

Under each type, tobacco leaf is graded on the basis of 4 factors —(i) Group, (ii) Quality, (iii) Colour, and (iv) Length

Group which is a sub division of a type, is very largely based on the position of the leaf on the plant There are from 4 to 6 groups meach type Standard symbols for group names have been prescribed and for the flue cured types these are —

A—Wrapper, B—Leaf, C—Cutters, X—Lugs X—Nondescript, S—Scrap Under the Tobacco Stocks and Standards Act the leading dealers and manufacturers are required to report to the United States Department of Agriculture quarterly their stocks of leaf tobacco divided by trpe and groups of grades

The next sub division divides each group into qualities. The various degrees of quality, from 1 to 6, are based upon factors like cleanliness, soundness, smoothness, texture, elasticity, oil, wax, cleanliness, soundness, texture, elasticity, oil, wax, cleanliness, soundness, texture, elasticity, oil, wax, cleanliness, soundness, smoothness, texture, elasticity, oil, wax, cleanliness, soundness, texture, elasticity, oil, wax, of the first party, texture, elasticity, oil, wax, of the first party of the f

The importance of colour varies with different types. In types, blue the flue cured in which colour is of sufficient importance to be shown as a part of the grade description the several shades of colour are designated by letters. Some of the important colours are L-light, F-medium, R-red, D-dark, G-green and M-mixed In the flue cured class, the lights are lemon coloured, the mediums are orange coloured and the darks are malogany coloured.

For types in which size is an important consideration, standards of length have been established and published Several lengths, commonly known as sizes, are designated by different series of numbers.

numbers

A complete tobacco grade symbol, with the four grade factors, by group, quality, colour and length arranged in order, forms a code by group, quality, colour and length arranged in order, forms a code which a specific grade is indicated. The code system conforms to which a specific grade is indicated. The code system conforms to trading practices, makes for brevity and facilitates commercal transtrading practices, makes for brevity and facilitates commercal transtrading practices, makes for brevity and facilities commercial transition. For example, the Grade B5F43 (of type 21) refers to wrapper tobacco, second quality Grade A2L (of type 11) refers to wrapper tobacco, second quality

and lemon colour $\;$ In flue cured to bacco alone, there are four type and each type has got 6b standard grades

The primary purpose of the Federal standards is to furnish the bases for watchouse inspection and marlet news service to growers. The Federal standards have also been adopted for the purposes of future trading

(b) Goading service—The Link I States Department of Agneutures in operation with State agencies has made the Tobaco Inspection Service under the growers at a few markets to determine wither living timing the crivers as to the grade of their produce the a in mainlet system would be improved. The imperion cuvice wife a system produce the area of tobacco before sale at auction many care Tackel tobacco is unspected and the grade certified upon application by interested parties.

The general procedure of the grading or inspection service is that the grower delivers his leaf at any warehouse he may select where it is weighed and arranged for sale on flat baskets. A warehouse ticket is placed on the lot and this shows the name of the seller and the weight of leaf in the lot. Space is provided on the tricket for the name of the buyer the grade symbol of the buyer and the price at which the leaf is sold. It has also a space in the corner, where the official inspector puts in the type, grade and signs himitals. The warehouse ticket then becomes a grade certificate and shows the type of tobacco as well as its group quality and colour bit estandard symbols. When the auction starts on each lot, the grade of the lot is announced for the information of all the parties concerned.

The official grading inspectors are removed as completely as possible from influences calculated to sway their judgments in grade determinations by making them completely responsible to the United States Department of Agriculture or to the Federal and State Departments of Agriculture if the grading service is handled jointly

One or more copies of the grade certificates issued by the official grader are filed in his office and when practical other copies may be distributed to interested parties

Another kind of certificate issued by the official grading inspector is the inspection certificate which is given when packed tobacce leaf is inspected. The certificate shows, (i) the date of certificate, (ii) the location of tobacco (iii) the kind of package (iii) a number or other symbol by which the package can be identified, (iv) the type, grade form and condition of the tobacco (ii) a statement to the effect that the certificate is issued under the Act and (ivi) the signature of the official grader. The original certificate immediately upon its issue, is delivered or mailed to the applicant for whom the grading was done and copies are supplied to interested parties who have purchased or sold ithe tobacco. Copies of the certificate are filed in the office of the official grader as in the case of grade certificates.

[Classification, grading and standardisation.

INTER-CHAPTER SIX

In the Umted States of America where the production and marketing of tobacco is carried out on an enormous scale, an elaborate and comprehensive system of grading has been established under the United States Warehouse Act and the Tobacco Stocks and Standards Act. The primary purpose of the Federal Goernment standards is to furnish the basis for warehouse inspection and a market news service for growers. The standards have also been adopted for the purpose of "future" trading and for securing advances against stocks.

In the United States, tobacco is divided into seven classes, three being of eigal ette leaf, viz, flue cured file cured and air-cured, three of cigal leaf, viz, fillers bind ers and wrappers and one miscellaneous. The first six classes referred to are divided into 26 types largely on the basis of size of leaf, and each of these types is again sub divided into groups which depend mostly on the position of the leaf on the plant. Each of these groups is further sub divided into six qualities according to texture, freedom from damage etc, and in the case of cigarette leaf, is further described according to the colour. Standards of length have been defined for types in which size is an important consideration.

All the American tobacco belongs to the Nicotiana Tabacum species In India, as has direidy been observed there are two distinct species, viz, Tabacum and Nicotiana Rustica each having quite distinctive characteristics These constitute the main divisions in any system of classification. The bulk of the tobacco grown in India can, however, be subdivided into classes which are in the main characteristic of the leading centres of production. There are 16 distinct classes of Nicotiana Tabacum and 4 of Nicotiana

Rustica, but in considering the possibility of introducing standard grades in this country at an early date, it is perhaps only necessary at this stage to have regard to about 8 classes of Nicotiana Tabacum and 4 of Nicotiana Rustica

For the time being, until the subject has been further studied it would be better to omit consideration of the two classes of bidi tobacco, viz., Gujerati and Nipan, which are reduced to powder form before being sold Similarly powder and ropes of Calcuttia and any form of tobacco where the product consists of the whole plant may also be omitted

This leaves for consideration the following classes Virginia (both flue cured and sun-cured) and Natu (sun cured) eigarette leaf as grown in the Guntur area, Mysore, Saharanpur, Jhansi, Satara and in small patches elsewhere, Usikappal and Monnakappal for eigars and cheroots as grown in the Trichinopoly, Combatore and Madura districts, cigar leaf grown around Rangpur, the Jata, particularly the Bhenga variety as used for cheroots and the remainder of the Jati grown in North Bengal and Cooch Behar areas for chewing and hoohah , Desi tobacco scattered throughout North Bihai, United Provinces and Punjab as used for hool ah and chewing All these seem capable of being marketed on the basis of standard grades The grading of Mysore chewing tobacco and of the Meenampalayam tobacco as grown in Coimbatore district for chewing would also seem to be possible. Certain classes in the Nicotiana Rustica group deserve consideration and the possibility of establishing separate grades for chewing and hookah in each case needs examination The following are the important classes Motihari as grown in North Bengal and Cooch Behar areas, Vilayati of North Bihar, Calcuttia as grown in the United Provinces, Punjab and Delhi where it is marketed in the form of leaf and not as powder or ropes Finally Nasuari tobacco as used for making snuff in the North West Frontiei Province might also be dealt with

Statutory grades for cigarette leaf have already been pre cribed under the Agricultural Produce (Grading and Marking) Act 1937 which define the grades on the basis of colour, texture and freedom from blemish. There are five grades of Virginia flue-cured which range from bright lemon in No 1 to dull vellow with greemsh tinges in No 5. The texture ranges from fine to coarse and thin. First grade leaf must be practically free from blemish but the fifth grade may have brown patches and affected to some extent with sponginess and scalding

Physical standards corre-ponding with the pies cribed grade designations are drawn up by the Indian Tobacco Association with its headquarters at Guntur In the first year the grades were introduced, 75,000 lb were exported to the United Kingdom market as an experiment and in the second year it is estimated that 375,000 lb, would be despatched

Grades have been similarly defined under the Act for sun cured Virginia and sun-cured Natu (country) tobacco. The former ranges from bright to dark brown in colour and the texture good or medium. The latter ranges from bright to dark in colour and from good texture to leaf with a heavy body.

Vo attempt has so far been made to grade any of the other classes of Indian tobacco. Those used for eigar leaf, might be graded on the bisis of colour, texture, size and freedom from blemish. At present, for size and freedom from blemish at present, for example, a few merchants and manufacturers of such leaf grown in Rangpur alreads sort the leaf into 4 grades and it seems worth consideration whether these could not be standardised.

The greatest possibility of standardising grades of cheroot tobacco appear to exist in the case of jath produced in Rangpur and Cooch Behar areas of North Bengal The main factors in this case are colour, size and the extent of brown spots on the leaf Each of these quality factors however, has a different degree of importance in different markets. It would, therefore, be necessary to study specially the requirements of the principal markets for this leaf, Burma, to example

For hookah and chewing tobaccos which are sold in the form of leaf the lati tobacco of North Bengal should afford scope for the standardisation of grades but the desi tobacco of North Bihar and United Provinces should also be taken into account In North Bihar for example the middle leaves (Murhan), the top leaves (Raint), the bottom leaves (Chhabua) and ration leaves (Doop) would each seem capable of being sorted into three grades in accordance with colour and texture Size, however, might be regarded as a secondary factor

The jate of North Bengal and the dest of Bihar and Umted Provinces could also be graded and packed separately for chewing purposes and the possibility of grading the more expensive Meenampalayam chewing tobacco of Coimbatore district might be tried out. In this case apart from body, taste and pleasant aroma the quality is very largely determined by the amount of white bloom on the leaf surface and by the colour There seems scope for the introduction of at least three or four standard grades.

In attempting to grade the different classes of tobacco falling in the *Nicotiana Rustica* species the main factors are strength, texture and colour and the different classes of leaf might well be graded on the basis of those factors

Suggestions in regard to grading meet with opposition owing to the fact that some growers and merchants

feel that it pays to dispose of as much earth and rubbish as possible with the tobacco. Where this view prevails any individual effort to raise the standard of quality by introducing grades is perhaps not likely to prove profitable. On the other hand the experiment would be well worth trying

The demand for tobacco and the price it commands very largely depend on the quality and in the interests of the growers in the chief areas of production, it is essential to enhance the reputation of the locally grown tobacco. This can only be done by the introduction of standard grades which would be adhered to by all concerned.

It is perhaps interesting to note that although standard grades have only been in operation for cigarette tobacco in the Guntur area for less than two years, there is already a large body of opinion amongst growers, merchants, exporters and manufacturers that it would be to the advantage of all of them if steps could be taken to ensure that all the cigarette tobacco grown and exported from that area could be graded and marked in accordance with the provisions of the Agricultural Produce (Grading and Marking) Act

The importance of this attitude should not be lost on the growers and merchants concerned with the production of different classes of tobacco in the other main producing areas throughout India and Burma

CHAPTER VII -STORAGE AND STOCKS

A -- Importance of storage

The production of tobacco is seasonal while the demand is spited over the year. It is therefore necessary to store tobacco until it is required for consumption. The storage of tobacco has also an important bearing on its snoking quality. In the case of eigerete tobacco for exumple, it is considered essential to keep it in store for some time till it becomes mellow and fit for manufacture. After the cagarette leaf is reduced it is packed in hospiteads, boves of bales and lept in store for ageing. It is desirable to allow the leaf to neuture is friench before it can be used in the manufacture of good quality can the During storage the leaf undergoes for mentain in the link is the leaf is enough its mental in the link is the leaf is as a rule not considered. Si the ently matured for use in the manufacture of good quality cigarettes thil after about 24 months' storage.

Ageing is also important in the case of bids tobacco. Well known munifactures of bids consider that bids tobacco should be aged at least for 6 months before using it in the manufacture of bids. Ageing is supposed to decrease the harshness of tobacco without affecting its strength to any appreciable extent It also improves its burning quality. In the Nipons area of Bombay Presidency the quality of Nipons and Alob bids tobaccos goes on improving after about 6 to 12 months storage while that of Viryis and Pandharpura bids tobacco is more after about 8 months? storage In the Gigerat area the bids tobacco is considered to improve in quality after about 6 months storage.

In the manufacture for hookah purposes newly harrested tobacco is considered harsh Most of the wholesale tobacco merchants and hookah manufacturers therefore store their tobacco steels for about 6 months before using them Even the tobacco growers themselves very seldom use newly harvested tobacco before it is sufficiently aged. Whenever they have exhausted the previous year-crop and are forced to use fresh tobacco leaf from their fields for smoking the cultivators of Gujerat resort to a make-shift derive which consists of putting fresh tobacco in an earthen vessel which is then considered fit for smoking as it partially loses its bandhees is then considered fit for smoking as it partially loses its bandhees

In Burma also most of the merchants and manufacturers age ther tobacco before using The tobacco morrows in quality on storing and is said to have the best smoking quality after it has been in store for about 4 to 12 months. The quality of the lower grade tobaccos he ever deteriorates after about 8 to 10 months; storage

B-Methods of storage

(1) In VILLAGES

finder the existing system excepting a few well to do growers many of whom are also merchants the cultivators of tobacco as 2

rule, do not store tobacco before sale for any appreciable length of Apart from the pressing need for cash on the part of most or the growers the most important reason is that without adequate stor ge facilities tobacco, particularly eigarette eigar cherool and high quality chewing leaf deteriorates fast in quality especially m coloar Since few growers can afford to lave such facilities, they generally prefer to sell immediately after harvest becomes ready for the market during the months immediately pre ceang the break of monsoon in June and in the absence of adequate storage facilities deterioration occurs at a taster rate during the morecon months than during the remaining part of the year for this reason that the growers prices or eigarctte and cheroot leaf and better quality cleroot and chewing tobac a do not improve on storing The few growers who store are mostly producers of bids and lookah tobacco as in the cale of these types deterioration in colour during storage is of little consequence to manufacturers and as the smoling quality improves after storage. As noted earlier in the Supply Chapter even in the case of those growers who can afford to store and holl over the crop transport by cart to the nearest market or railway station is extremely risky during the mon oen period since a small shower during transit by cart mig r spoil the quality of whole cart load of tobacco Hence such people have to wait till late September when the early mousoon period is over. The conditions with regard to the disposal of the crop immediately after harvest in different areas have already been discn sed under the 'seasonal variation in the flow of market supplies' but it may be repeated here that the proportion of the farmers' erop that is stored to be marketed after the end of the moneoon late in September or early October is extremely small most likely not more than a per cent of the total

The few well to-do growers who store tobacco to be sold after the end of monsoon usually keep it in one of the hving rooms of their hopes or m a part of cattle shed if it is well protected from the sun and the rains The floor of the living room or cattle shed is cle ned smeared with mud or cow dung and then a small raised platform is prepared on it using either wooden plank, or bamboos or straw. The hon es of grover merchants are usually well 1 ilt with palla coofs and defourte ventilation A few of such persons partially cooks and adequate ventilation and floors and adequate ventilation. cularly from Guntur and Gujerat Lave got their own well built godowns Leaf tobacco intended for indicenous types of consumption like b dis, hookah, chewing snuff etc 1 first tied into bundles or hark and these are then arranged in stacks or heaps ove the raised platform. The heap is then topped with dry grass or Taised platform. The heap is then topped with dry grass or Taised platform. The heap is then topped with cumve cloth or mats. The heaps can be supported with cumve cloth or mats. the neares which are covered with count cioin of about 2 to the means are periodically disturbed with an interval of about 2 to 5 west are periodically disturbed with an interval of about 2 to middle hundles 5 week and are rearranged the bottom and the middle bundles being brought over to the top of the heap on each occasion Powder intended to be used for hookah is simply heaped on the floor powder intended to be used for hookah is simply heaped on the floor and the and the heap is covered with gunny or other cloth Superior quality hookah tobacco powder and all bid tobacco powders are first filled in gunny bags which are then stacked one over the other in the store room The bags are rearranged once a fortnight or a month, the bottom bags coming on the top

But even in the cise of small growers tobacco is required to be stored at least for some time before it is sold and the period of storage may range from a few days to a few weeks. Such temporary storage is done by the growers in their own fields either under the shade of a tree or a thatched roof. If the period of storage is considerably long and there, is fear of pilitrage or rains by storing in open space, the tobacco is carried by the grower to his own house where it is stored in one of the living rooms.

In Burma the peasint growers do not experience any difficulty as regards structor as most of the crop is sold off by about July. In the cise of a few who hold part or whole of their crop in the expectation of better prices the tobicco leaf is stored in basicis which are then arranged one over the other on raised platforms in one of the living rooms of the grower.

(2) In Markits

The storing of tobacco is mostly done by commission agents and merchants in the principal essembling and distribution markets. In Bengal, Bihar and Orissa the merchants and commission agents store tobacco leaf in bales which are arranged horizontilly one over the other in godowns with that helf roofs and mud floors on which platforms of bamboo or wooden planks are built. In hig markets like Calcuttr, however the gedowns are well bull with pakka floor and roof. In storing tobicco the merchants take particular care to protect it from the sun and the rains. The tobacco bales are disturbed periodically particularly during the monsion months. In most cases the godowns belong to the merchants and commission spents themselves.

Commission agents and the merchants in the Bombay Presidency usually have their own godowns which are well built and adequately protected from the sun and the rains. In these godowns their own tobacco is stored but in the Nipani area there is a system by which the commission agents store tobacco of their clients who are in most cases petty village merchants charging them godown rent Nip ni the godown charges are half an anna per bag of tobieco per month and in addition 2 annas per eart of 16 bags are charged every time the bugs are turned over in the godown. The charge for turning over the bigs is locally known as ferwamani feru amans is done every 2 or 3 weeks but sometimes even at shorter intervals during the monsoon. At Sangli godown charges are 1 of levied by the commission agents from their clients for 1 month's storing but afterwards the charges are 9 pies per bag per month, besides the ferwamani charge of 3 pies per hag on each occasion the bags are rearranged At Nipani generally no insurance charges are made but at Sangli an insurance charge at 4 annas per cent is made for any period after harvest till about October. No insurance charge is, however recovered if the tobacco is kept in store for only one month. At Jaysingpur, the godown charges

work out at 8 annas per eart of 16 bags per month, in addition to the feritament charge of 4 annas per eart each time the bags are turned over Insurance charges come to about 4 annas per cent for any period up to a year It may be, however, noted that these fectives for storage offered by eomission agents in the Nipaui area are in most cases availed of not by the growers but by petty rierchants who cannot afford to have their own or specially lired storage facilities

In the Guntur area of Madras, the tobacco leaf is stored by the smaller merchants in temporary thatched sheds with kachcha floors The floor is smeared with cow dung and then the tobacco bales are arranged one over the other About half a dozen merchants, however possess extensive godowns which are well built with polks floors and tiled or corrugated iron sheet roofs. In these also the tobacco bundles are arranged one over the other after their arrival from villages. These tobacco bundles are however immediately opened up afterwards and bulked, re-dried pressed and packed into bales, hogsheads or wooden cases which are then again stored till they are despatched. In the case of Virginia cigarette tobacco the period of storing is small ranging from a month to 4 months depend irg upon the volume of business handled by an individual merchant Country eigarette tobacco, however, has to be stored by the merchants necessarily at least for 3 to 4 months until it is exported to Japan or sold to buyers within the country Merchants in other areas of Madras store the tobacco bales in pakka buildings with tiled or corrugated iron sheet roofs Small platforms of wooden planks or bricks are prepared on the floors. The tobacco bales are arranged on these platforms.

In the United Proxinces the merchants and commission agents in most cases have pakka godowns with corrugated iron sheet roofs where storing is made Many of them have their own godowns, while others use hired ones In Cawnpore the hire charges come to about Rs 100 per month for a godown of the storing capacity of about 5 000 maunds of tobacco. The commission agents in addition to storing their own tobacco also let out storing space to their clients a great majority of whom are small merchants' only a few being growers. The commission agents charge nothing for storing for a short period usually about a month after this period the storing charges in some of the important markets like Farukhabad Aligarh, Eta's and Agra range from 1 Re to 2 rupees per month for a room of 10' × 10' × 12' dimensions with a capacity of 30 to 40 maunus of tebecco In Licknow the charges for the same sized room are, h wever higher ranging from rupees 2 to rupees 418 per month. In Benares the charges for storing are low and come to about annas 2 per package weighing about 10 maunds

The wholesale merchants and commission agents in the Punjab keep tobacco in gruins sacks or bundles which are covered with palm mitting. The burs or burdles of tobacco are arranged with no principar sastem in any available room adjacent to or remote from the shop. Occasionally the room has palks flow but it is more often thankels with no arrangements for any raised platform on the floor.

In Assam the merchants store tobacco invariably in their own bodowns along with other commodities. Small platforms or corrugated iron sheets are placed on the floor before stacking the tobacco bundles.

In Transacore, the merchants store chewing tobacco in faully large rooms provided with pakka roofs and floorings usuality of bricks and occasionally of coment plaster. The bales of tobacco are arranged one on the top of another to a height of 10 to 12 feet. Bass of bid tobacco re arranged in a similar manner.

It Burma the merchants in the assembling centres like Rangoon and Vanasiay possess spatious godowns with pakke roofs and flows. The cigar and cheroot tobaceos are usually stored in baskets which are ariained one over the other. Sometimes loose tobaceo bales are arranged one over the other but this system is followed usuall in the case of lower grade tobaceos.

(3) IN FACTORIES

Except in the case of organettes bidis, organs and cheroots the biness unit of maintaeture is small in dayle small manufaeturers, including the small manufaeturers of bidis eigers and cheroots who form the majority do not stock large quantities. Such small quantities as are required to be stored are kept in a corner of their small work shop. Bidi and hoolah powders are kept in gunny bags while jitties or bundles o tobacco leaves are stocked pleid one over the other. In most cases the flooring of the place where storing is done its look had but there is practically no damage or loss as the stocks are lept only for short periods of about a week or two till they are used in manufacture.

In bigger factories (but eigar and cheroot) have godowns which are strongly built with filed or corrugated from sheet roofs eement or stone flooring and adequate arrangements for remulation. The built to bacco bags are piled one over the other while eigar and cheroot to bacco leaf is stoked in gunny bales which are arranged one over the other. The tokacco bags or bales are re arranged periodically to prevent excessive ferm-intation by pressure usually once a month though the period is shorter during the wet months.

Smaller eigarette factories store their stocks under ordinary conditions is in a specially constructed godown with thick brick, stone or concrete walls tiled roof stone or concrete floor and adjustable ventilators. In such godowns the leaf tobucco is stored almost internably in bales arranged one over the other and the quantity stored range, from six to twelve months requirements. Such small factories however manufacture only the low quality and churp cigarettes.

The storing of cigarette tobacco for the manufacture of good quality eigrareties is however more elaborate. Such manufacturers consider it essential to leave tobacco in stock to about vienty four months to enable it to mature and it is the common practice with reputed cigarette manufacturers to blend the growths of different verse to produce an article f uniform quality. During storage the

harshness of tobacco disappears and smoothness in smoking develops The problems of ageing maturing and smoothness in smoling are extremely important in the production of good quality cigarettes and hese can be best solved so far as conditions in India are con cerned by storing eigarette tobacco leaf in godowns where temperature and hamidity can be controlled. It is reported that one or two of the bigger cigarette factories store their leaf supplies under air conditioning arrangements and the leading factories have commenced recently to store their stocks of best quality leaf in cold store where the temperature and humidity can be more effectively con trolled. The leaf is said to maintain its quality for a longer period under cold storage conditions usually with a temperature ranging from 30°F to 60°F and humidity approximately 70 per cent. The conditions prevaling under such stolage lelp to maintain the colour of the leaf-an important factor of all cigarette leaf-unaffected for ove a year and to prevert damage to leaves by insects. There are at present two cold stores in India where tobacco is stored one at Calentra called the Calcutta Cold Store Ltd and the other at Chirala in Guntur District The one at Chirala belongs to the Indian Leaf Tobacco Development Co Ltd The capacity of the cold store at Calcutta is about 600 000 cubic feet of which it is reported that about two thirds is taken up by eigarette tobacco over 90 per cent. of which is said to be Guntur tobacco the remaining being foreign leaf imported from the United States Great Britain Greece and Turkey The cold store at Chirala was constructed only in 1930 and is understood to have a capacity to store about two million lb of leaf In these cold stores almost the whole of the leaf is stored in hogsheads and cases the former being more common Some of the imported leaf from Greece and Turkey is also stored in bales packed in gunny cloth It is the opinion of leading manufacturers that tobacco matures better when packed in hogsheads and that when packed in bales there is a possibility of waste through breakage of leaf while handling particularly when the leaf is over dried through in experience

(4) AT PORTS.

There are Government bonded warehouses at the principal ports importing tobacco and tobacco products from abroad $e\,g\,$ at Madras Bombas Ca cutta und Travancore

The Madeus port trust warehouse affords accommodation watching and porters services for goods passing through its premises during trinsit and the harbour dues are collected at the following rates for every 30 cubic feet of space

	Rs a p
I nmanufactured tobacco	2 0 0
Cigarettes and eigars	3 4 0
Tobacco dust	3 4 0
Cut tobacco	3 4 0
Tobacco sticks	3 4 0

An additional fee of 21 annas per ton is levied if the goods are definitely given in the charge of the Port Trust. Its sheds are let

out to merchants for storage of their tobacco and tobacco products at their own risk. The charges for the hire of storage rooms vary from Rs 3 12-0 to Rs 4 8 0 per 100 cubic feet per month. Some of the eigarette and eigar exporters avail themselves of this facility

There are only two regular bonded warehouses in Madras belonging to two leading eigar manufacturing firms one from Madras and the other from Dindigul but under the control of the customs authorities. In these warehouses the firms manufacture eigars partly from imported tobaceo under the supervision of Customs officials. It is reported that about 85 per cent of the eigars exported from Madias are naunifactured in these two bonded warehouses.

There are two Government tobacco warehouses in Bombay in charge of the Exoss Department with an adequate control of the Customs Department All the tobacco consumed in Bombay passes through the warehouse in Mint Street. There are about 90 liceased warehousemen who have hired accommodation in this warehouse storing tobacco for consumption in Bombay and other parts of India Cigarettes eights and bird tobacco are stored in it. In the case of the removed from the warehouse The quantities of country toaccomported in the two warehouses for consumption in the city and distribution to other places during seven years ending 1396 37 and distribution to other places during seven years ending 1396 37

Year	Quantities in maunds
1930 31	1,26,453
1931 32	1,65,835
1932 33	1,04,976
1933 34	1,65,776
1934 35	1,79,074
1935 36	1,72,020
1936 37	1,03,930
-	

The other warehouse is in Clive Street where mostly unmanu factured bid and keoloids tobaccos are stored. Most of the tobacco stored is for export abroad. Local commission agents who have taken the rooms of the warehouse on hire charge the exporters S annas per bale for temporary storage till the robacco bales are exported to Aden.

The number of tobacco biles exported to Aden through the Clive Street warehouse during seven years ending 1936 37 were as

shown below —	
Year	No of bales
1931	3,746
1932	4,654
1933	5,976
1934	4,768
1935	7 421
±936	16,074
1937	12,934

Each bale is equal to about 9 maunds in weight

In Bengal there are a number of ports and Government bonded firms and a very large number of these are under the control of the Bengal Bonded Warehouse Association Ltd Tobacco is stored only in three of the several warehouses of which one is entirely leased out to a cigarette firm Tobacco for which duty has not been paid is kept under the control of the Customs Department while free and duty paid articles remain with the Bengal Bonded Warehouse Association The storage charges collected by the Association are as follows —

Tobacco	Rate per month
	Rs a. p
A case or a cask	0 5 0
Space occupying 10-cu ft	0 8 0

In the Garden Reach A. Warehouse in Calcutta compartments are let out at the following monthly rates of rent —

	Rs	
Ground floor	100 per 1 000 cu	ft
1st floor	85 Do	
2nd floor	-0 Do	
3rd floor	60 Do	

The rent is chargeable as soon as the accommodation is engaged or goods are brought within the premises of the warehouse. It is levied on the basis of a month or part of a month the shortest broken period for which it is chargeable is quarter of a month

Many municipalities in the Mysore State possess bonded ware houses where tobacco is required to be stored by merchants and rann acturers pending payment of octroi duty levied by municipalities. The Bangalore ety municipality for example owns a warenouse where merchants and manufacturers can store their tobac o free of charge on condition that a merchant or manufacturer removes from the warehouse at least 240 lb of his tobacco every month after pairing the requisite octroi duty. In other cases the rent charged is Rs. 4 per month per room of about 12 it X 10 ft X 12 rt size. The rooms in the warehouse are locked and sealed in the presence of the merchant or manufacturer and the octro officer.

In Travancore State there are four tobacco bonded warehouses or landshalls. The names of these banksi alls and the kinds of tobacce banded warehoft the same ballows.

or lankshalls The names of these banksialls and the kinds of tobacco bonded in each of them is given below — Name of bankshall Types of tobacco permitted

	to be bonded Tinnevelly Combatore and Jafina		
Kottar			
Trivandrum	Combatore and Jaffus.		
Quilon	Do		
432	n.		

These bankshalls are controlled by the State Government They provide accommodation on rent for storing tobacco at the sole risk of the merchants who are all hierased by the State authorities. Any one desirous of bon lin" tobacco in a particular ban shall has fir to obtain a heense authorising him to do so. Each bale is given a

registered number and this and the net weight are marked on the bale with tar Duty on tobacco is collected when it leaves the bankshall on the weight recorded on enlering it. The godown rent per bale of tobacco weighing about 75 lb in the case of Jaffau tobacco and 100 lb in Tinnevelly and Combatore tobaccos bonded in bank shall per month or traction thereof is one anna and six pies for Tinnevelly and Combatore tobaccos and six pies for Jaffau tobacco

The total quantity of each of the different kinds of tobacco bonded in Government bankshalls during 1933 34 and 1934 35 is shown helow —

		(Candies of 600 l	lb each)
Aind of tobacco		1933 34	1934-35
Tinn velly		657	501
Combatore		6,464	5 253
Jaffna		2 542	3,909
	Total	9 663	9 663

The quantity of tobacco subject to Customs duty imported into each province of British India which remained in the Customs bounded warehouses on the 31st March during 1928 29 to 1930 36 is a given in the Appendix LXIII The quantities given in the state ment do not include the stocks curried in the bonded warehouse, in Travancore

The statement shows that there was an abnormal use in the quantity of tobacco in bond in India in 1930 31. In 1931 32, the sto its declined considerably but manifamed very nearly the level of 1929 30. The quantity went on contracting till 1933 34 but it ross considerably in the following year and declined again in 1935 56.

was a sharp fall to 3 356 b as compared with 110 831 10 in 1930 31 1932 as a sharp fall to 3 356 b as compared with 110 831 bh in 1930 31 1932 33 witnessed a retovery but the quantity again went on dechning till 1934 35. There was a good rise in the quantity in the bond in 1936 36.

C -Insurance of tobacco warehouses

It is not the practice with growers and merchants in India for merchants who insure their tobacco godowns there are only a few merchants who insure their tobacco godowns there is not a single grower insuring his tobacco store. Almost all the cigarette factories get their tobacco store and factories insured

In Madras the msurance of tobacco warehouses is done to some extent at Guntur at the following rates charged by an insurance company -

- (s) For fire proof or palka godowns at 31 annas per Rs 100 per annum
- (11) For second class construction at 5 annas per Rs 100 per annum
- (iii) For third class thatched buildings at Rs 1-4-0 per Rs 100 per annum

For short periods rates are as follows -

1/8 annual premium Period not exceeding 10 days Period not exceeding 15 days 1/6 annual premium Penod not exceeding 1 month 1/4 annual premium Period not exceeding 2 months 3/8 annual premium Period not exceeding 3 months 1/2 annual premium Period not e ceeding 4 months 5/8 annus) premium Period not exceeding 6 months 3/4 annual premium annual rate Period exceeding 6 months

The rates of insurance charges levied by another insurance company are slightly different. The company levies the following charges—

 Bullding
 Premium per annum (per Rs 100)

 Class I
 .
 3 annas

 Class II
 4 annas.
 1 rupee

An extra charge of 25 per cent is levied for risks taken outside municipal lunta. If there are lack-the or thatched sheds within 50 feet but beyond 10 feet an additional charge of one anna is levied per every Rs 100 worth of tobacco insured, if within 10 feet, the additional charge is 2 annas per Rs 100 per annam.

In Bengal the insurance charges for tobacco are different for Calcutta and mofusal places. The charges for tobacco valued at

n 100 are as under —						
	Rate per at Ca			Rate pe in mofus		
	Rs	A	P	Rs	A	P
First class, fireproof or pakla godowns	0	4	0	0	4	0
2nd class, ordinary <i>Lachcha</i> or <i>pakka</i> godowna	0	6	0	0	6	0
3rd class kachcha (thatched) godowns	1	4	0	0	8	0
4th class kachcha (thatched) godowns				1	4	0

If the period is less than one year the rate is reduced by about 25 per cent

Tobacco transported by boats to the districts of Daeca Faridpur and Backergan; in Bengal is insured against loss by fire theft or natural calamities at Rs 2 for Rs 100 worth of goods during the transit period. It is quite a common practice with eigarette manufacturers to insure their tobacco godowns but otherwise the insurance facilities are taken advantage of by extremely few merchants and most of these are large exporters operating in Calcutta and in the Rappyur area.

In the Charotar (Gujerat) area of Bombay, insurance of tobacos stocks or godowns appears to be conspicuous by its absence. In the Nypan area, however, the practice of insurance is observed to a small extent, the 11st covered being mostly that of fire. It is estimated that about 15 per cent of the tobacco stocks and about one study of the godowns in Sangli are covered by insurance. In the Nipan market however, only about 5 per cent of the stocks are insured In Jayasingpur an important tobacco market in Kolhapur State, nearly 25 per cent of the tobacco stocks and 8 to 10 per cent of the tobacco of the stocks are described by insurance.

D -Losses in storage

It is difficult to estimate losses mourred in storing tobacco. The type and location of the warehouse and the varying methods of storage determine to a large extent the amount of wastage during storage. In tobacco there is a natural shrinkage in weight due to loss of moisture on storing. There is also deterioration in quality which is indicated by a change in the colour of the leaf, in the case of eigarette tobacco. Apart from these losses wastage may also occur due to dampiess and meet attack. It has generally been observed that tobacco of poorer qualities deteriorates faster and is subject more readily to deterioration of colour and insect attack than tobacco of better qualities.

Under ordinary conditions of storing, Virginia cigarette leaf of the first grade loses colour and becomes second grade in 3 to 4 months' time resulting thereby in a loss of about 2 annas per pound In the course of another 4 months the leaf further deteriorates and becomes third grade involving a total loss of about 4 annas per pound in price It is noticed that the larger the moisture contents in tobacco the greater is the extent of loss in storing. Hence no merchant in the Guntur area likes to store Virginia tobacco for long under conditions prevailing there Re ordered leaf loses in weight only to a very small extent ie, 1 per cent in the first year and 11 per cent during the second year if packed in hogsheads or wooden cases and stored under cold storage conditions Thereafter the weight of the tobacco remains almost constant. There is no deteriora tion in quality in the case of re-ordered leaf during storage On the contrary, it improves in smoking quality. It has been observed that re-ordered leaf packed in hogsheads or cases is immediately despatched from the Guntur area either for export or to be stored in cold store on behalf of cigarette factories. Virginia leaf packed m bales loses weight and colour to a greater extent Under ordinary conditions of storage the loss in weight comes to about 10 lb 13 lb, 15 lb, and 17 lb per bale (250 lb) during the course of 6 months 1 year 11 years and 2 years respectively, but storing of Virginia leaf under ordinary conditions packed even in bales is rare, as the merchants prefer to despatch the bales immediately they are ready The country eigarette tobacco however, is stoicd for a longer period, and the shrinkage in weight, under Guntur conditions, on account of loss of moisture ranges from 5 to 10 per eent in 3 to 4 months' time In addition, it has been observed

that there is considerable damage by insects to country cigarette tobacco sometimes to the extent of about 2 per cent. The loss in weight in the case of indigenous types of tobacco grown in the other areas of the Madras Presidency varies from one area to another depending upon the conditions of climate, storage and the quality of the tobacco stored, but it is estimated that these losses in weight amount from 10 to 15 per cent in about 6 to 12 months' time. After 12 months the shrinkage in weight is negligible. The damage by insects is reported to be small being estimated at less than 3 per cent.

In Bihat and Orissa the shruhage in weight amounts to about to 12 per een during the first year and thereafter there is practically no loss. The damage due to insects is small and estimated at about ½ per eent. In the United Provinces the loss in weight due to skirnkage varies between 10 to 25 per eent. During the rains the tobacco gains in weight to the extent of 4 to 8 per eent but this gain is lost in about 2 months after the monsoon is over It may be noted however that with the gain in weight during the monsoon months there is a corresponding decline in the prices during the period. The damage by insects is estimated at not more than 1 per een of total production.

In Bombay the shruhage in weight in the case of tobacco bun'lies is as high as 25 per cent during the first three months in the Cuperat area. In the case of Nipan and Guperat bull tobacco powders the loss in weight is less than 5 per cent during the first cent months after which further shrinkage in weight is negligible. The damage due to insect attack is reported to be ½ per cent, of total production.

In the Punjab under the existing methods of storage tobacco loses in weight to the extent of about 18 per cent during the first six months after which there is practically no further shrinkage in veight. In Sind the loss is estimated at about 20 per cent in all the tracts except Bubol, where the shrinkage in weight comes to about 6 per cent only. It is said that the damage by insects in these two areas ranges from ½ to 1 per cent.

In Bengal and 4ssam the shrinkage in weight is estimated at 5 to 10 per cent during the first 12 months, after which there is no further loss. The damage due to insects is small and estimated at about 1 per cent.

Jaffina tobacco in Tratancore shows a drage of 8 to 10 per cent in about 12 months time. In Cochin shrinkage in weight var es between 10 to 20 per cent in a vear. In Mysore and Hyderabad the loss in weight comes to about 5 to 10 per cent. while damage due to insects is small and estimated at about 05 per cent.

In Burma the shrinkage in weight due to loss of moisture is about 10 per cent from the time the tobacco is put on the market till October From October to March there is a further loss of about 5 per cent thereafter there is practically no loss in weight. The drinkage due to insects is estimated at about 1 per cent.

Taking into consideration these varietions from one area to another, it is estimated that fit Inda the shrinkage in weight due to less of mosture comes to about 10 per cent (or 58,000 tons) of the average annual production. The damage due to insects as estimated at 0.64 per cent of the production or 3,700 tons approximately valued at about 10 lakhs of rupees.

Similar estimates for Bu ma indicate that the shrinkage in weight due to loss of mosture is equivalent to a little more than 3000 tons of the average annual production while damage due to insect." Is estimated at 1 per cent of the production or 440 tous valued roughly at 12 lakhs of rupees.

E-Finance of storage

Excepting to a small extent in the Nipam area of the Bombay Prevendency and in a few markets in the Madras Presidency, the storing of tobacco is generally done by merchants and manufacturers on their own capital. Banks and shroffs generally do not give advances against tobacco stocks though some of the merchants and manufacturers occasionally raise loans from these sources on the security of real estates, government papers or gold. It is understood that one of the joint stock banks operating in Delhi tried to advance loans against tobacco stocks to merchants in Delhi City, but the proposition had to be given up as the bank did not find it profitable. The conditions are similar in other assembling and distributing centres in the country.

In the Nipam area of the Bombay Presidency, the Belgaum District Central Co operative Bank has made arrangements to give advance against tobacco stocks at Nipam only These advances are given only through guarantee brokers and on scenirit of goods kept in the possession of the bank. Each guarantee broker who makes himself responsible for advances given against tobacco stocks to the extent of a lakh of rupees is required to give a security of Rs 25,000 The guarantee broker is held responsible for any loss to the bank account of any reason whatsoever, provided the bank takes necessity steps according to the instructions of the guarantee broker in respect of goods pledged through him. For his services the bank pays to the guarantee broker a commission equivalent to 11 per cent of the interest recovered by the bank on the advances made through him. The

[&]quot;The most common storage pests of tobacco are the conserts bestite the state of the consert the conservation of the conservati

persons taking advances have to be responsible for charges incurred on account of godown rent and watching of tobacco deposited in the bank. The godowns are insured and the insurance charges come to about Re 1 to Rs 180 per cent per annum. The rate of interest charged by the bank on the advances is 9 per cent per annum. The maximum advance given is about 50 per cent of the value of tobacco deposited and the maximum period for which an advance is usually sinceined is 8 months. The extent of advances given during the last 3 years is indicated by the following figures.

		* -			
Year	Maunds of tobacco depo sited	Market value of tobacco deposited	Amount advanced		
		Rs.	Rs		
1933-34	2,320	50,836	25,050		
1934-35	18,272	3 83,839	1,91,135		
1935-36	28,103	6,06,294	2,90 942		

It would be seen that increasing advantage was being taken by tobacco merchants during these three years of the facilities offered by the bank

In a few of the wholesale markets (Tharaku Mandis) of the Madura District in the Maduras Presidency, advances are given occasionally by commission agents against tobacco stocks up to about 7a per cent of the value at 12 per cent interest. In two important markets, Palan and Virudhunagar in Madura District, it is estimated that in 1935 about Rs 30 000 were advanced against about 3 000 maunds of tobacco stored with merchants. It is reported that these advances are given only for short periods ranging from 4 to 6 months and the depositors usually do not have to pay any charges excent the interest.

F - Seasonal variation in stocks

The seasonal variation in stocks closely follows the monthly fluctuations in the flow of market supplies. The stocks are at their maximum during the post-harvest months, February to July

In Bengal, the maximum stocks are held during the months April to June, after which they go on diminishing till they reach their maximum in January and February

In the Charotar area of the Bombay Presidency, the stocks are at their maximum from March to May and reach their low points in November and December. In the Nypon, area, the stocks held are high during February to June, the months with maximum stocks being March and April. The following figures show the estimated area age monthly stocks held in the Nipani market in 1934 LMCAP.

Fstemated monthly stocks in Nipani

(Thousand maunds)

Jana rv		31	July		87
February		95	August		77
March	••	Ita	Septembér		68
April		109	October		55
Mav		94	November		38
June		9ა	December		30

The stocks thus reach their lowest levels during the three months, November to January after which supplies of the new crop begin to arrive in the market. Similar are the conditions in the other markets of Sanch and Jarasingpur in the Vipani area.

In Bihar the maximum stocks are held in April to June after which they decline progressively till they reach their low level in December January and February

In the Guntur area of the Modras Presidency the Virginia tobaco stocks are at their linkle level from February to April Trees stocks almost compacted disappear by May and June by which time they are sold off to uzarette manufacturers or exported abroad. The country engagete tobacco stocks are high during May to August after which they slowly decline reaching a low level during December to March. With the manufacturers of engarettes also the stocks are at their highest during April to June in the ease of country circuit tobacco. The leading engarette manufacturers, however attempt to maintuin their stock, at as uniform a lever as possible throughout the year and the general policy appears to be to have on hand stocks equivalent to two years requirements.

In other areas also the cocks are at their maximum during the theore or four months of er he new tobacco crop appears on the market

In Burma high sto k are held during April to July after which they progressively decline reaching the minimum level about January

G -Carry overs

There are practically no carry overs from one season* to an offer with the growers. But con idering that all types of tobacco are required to be kept in store at least for some months before they can be used in manufacture merchants and manufacturers are required to carry large stocks from one year to another. Taking into account the wide variations from one area to another described below it is estimated that the annual carry-overs in India come to about 20.3600 tons or 4.56 million ib .e., about 35 per cent of the

[&]quot;Generally speaking the harvesting of the new crop begins as from 1st January so the end of the season has been taken as 31st December on which date the carry-overs are taken forward.

average annual production of raw tobacco. Of this quantity the carry overs with eigarette manufacturers are estimated at about 25 million lb in terms of raw unmanufactured tobacco, of which about 8 million lb is Virginia eigarette leaf. The carry-overs with eigar and eheroot manufacturers are estimated at about 40 million lb Abo. 43 million lb of bidi tobacco, 274 million lb of hoolah tobacco, 65 million lb of elewing tobacco and 9 million lb of snuff tobacco are estimated as being carried over from one year to another

In Madras roughly about 111 million lb of tobacco is carried over to the next season Because of the loss in weight and value under the ordinary conditions of storage Virginia and good bright country tobaccos are not kept for the next season. Merchants m Guntur prefer to send their stock of Virginia and country bright leaf to bonded warehouses in London for storage, consigning it to their brokers for sale. While the superior grade Virginia is disposed of by May inferior qualities such as Virginia brown and red (flue-cured) are held in stock even up to September and October, but they are almost invariably disposed of before the end of the year However in a few cases, some of the better placed of growers in Guntur possessing adequate storage facilities retain their tobacco, mostly the country eigarette tobacco for the next season in expecta tion of better prices On the whole the growing export demand and the demand from the cigarette factories within the country tend to keep down the carry over of eigarette tobacco which is estimated at 11 million lb only The annual carry-over of eigar and cheroot tobacco in the whole of Madras is estimated at about 52 million lb It is estimated that during 1934-35 in Madras the carry-over of bid; tobacco was about 8 million lb, while that of chewing and snuff tobaccos was about 40 million lb

In Bengal the carry-over is estimated at about 95 million lb.
In Bihar and Orissa the annual carry overs work out to about 23 million lb. Taking the Bombay Presidence as a whole, it is estimated that about 15 million lb of tobacco is carried over from one season to another. In Surat, Javasingpur and Sangh markets the carry overs are about 2,500 maunds 4,000 maunds and 2,500 maunds respectively.

The annual carry-over in the United Provinces, the Puniab and Sind is estimated at 58 million lb, 19 million lb and 3.7 million lb respectively

In Mysore State the carry-overs are estimated at about 9 million lb and in Baroda at 3 million lb In Hyderabad the annual carry over is usually about 13 million lb

H -Stocks of Indian tobaccos held in the United Kingdom market.

In the United Kingdom it is the practice of all manufacturers to fold large stocks in the bonded warehouses with a view to get leaf which is sufficiently matured and aged for manufacture, and all for counteract the effects of erratic variations in the annual size prices and quality of the tobacce corp in the producing countries.

On an average a little over 2 years' requirements are held in stock. The consumption of tobacco in the United Kingdom is increasing and to meet these heavyer requirements the stocks held have also micreased from year to year. Thus while in 1910 only about 200 million ib were held in stock early in 1937 the stocks were as high as 500 million ib.

So far as Indian tobaccos are concerned the stocks held during the past 5 years ending 1937 have ranged from 25 to 26 milton 1b or roughly what would be required in about 243 years. In 1936 the stocks held of Rhodesian tobaccos were about 31 milton lb or 25 years' requirements as a sagainst 157 million lb or 170 years requirements and 304 million lb or 242 years' requirements of Canadian and Nyasaland tobaccos respectively. The stocks of American tobaccos held at the end of 1936 were about 440 million lb as against 4476 million lb at the end of 1934 It is reported that by the end of 1937 the stocks of American tobaccos declined still further. Thus fall in the stocks of American tobaccos and be attributed in part to the higher prices and the smaller sizes of United States' tobacco crop. On an average about 21 years' requirements of American tobacco are held in stocks.

INTER-CHAPTER SEVEN

The length of the stolage period has a profound effect on smoking quality. For the manufacture of cigarettes, tobacco is considered at its best after about two years. Tobacco for bidis and cheloots should be six to twelve months old but hookah tobacco is sufficiently mature at the end of six months. In the course of storage tobacco becomes mellow. It is highly important to recognise, however, that while good quality tobaccos improve with somewhat prolonged storage the quality of low giade tobacco is apt to deteriorate lapidly particularly after about eight months unless very well stored under controlled conditions.

The method of storing has itself a great deal to do with the final quality of the product Growers have very inadequate facilities and tobacco which they hold over is generally kept on the floor of the living room or cattle shed A few grower merchants, particularly in Guntur and Guierat have then own well built pakka godowns, but tobacco is very commonly stacked in heaps which are merely covered with gunny cloth or mats. These hears have to be turned over periodically. The methods of storing by the larger wholesale merchants are on the whole not very much better and systematic storage in special tobacco warehouses is uncommon although in some parts the commission agents have well built pakka godowns where they store the tobacco of their chents for a charge which may range from Re 1 to Rs 4'8'0 per month for a lot of 30 or 40 maunds

When stoied under such ordinary conditions the tobricco loses about 10 per cent in weight. Damage by beetles and moths is also considerable and is valued at about 10 likhs of rupees per annum. Further, organite leaf held under such conditions loses colour appreciably and first grade becomes second grade in the course of

three or four months time, resulting thereby in a loss of 2 annas per lb. In the course of another four months the leaf drops another grade bringing about a total loss of 4 annas per pound in 8 months

These losses in the course of ordinary storage are serious It is found, however, that tobacco leaf, if properly reconditioned, packed in hogsheads or wooden cases and stored under controlled conditions of temperature and humidity loses only about 1 per cent in weight in the first year, 13 per cent in the second year and then becomes almost constant There is practically no deterioration in colour in such cases and the tobacco improves considerably in smoking quality. There has therefore been a definite move in recent years in India to keep tobacco in cool or cold stores with a temperature ranging from 55° to 60°F and a humidity of about 70 per cent Apart from using existing stores special cold stores for tobacco have also been built with a distinct saving in wastage It is desirable that this method of storage, particularly of high quality cigarette leaf should be further extended

The seasonal fluctuations in stocks are related to the times of harvesting and stocks in India are at their maximum during the period February.—July and at a minimum about December just before the new crop comes on the market. The amount of carry over as at 31st December varies appreciably from year to year. Roughly a little over a third of the annual production of raw tobacco is normally earried over. Out of a earry over of about 456 million lb only 25 million lb represents unmanufactured eigarette tobacco, about a third of which consists of Virginia type. Cigai and cheroot lerf earry over is estimated at about 40 million lb. Bidi tobacco represents about 43 million lb, chewing 65 million lb, and snuff tobacco 9 million lb, whereas the normal earry over from one year to another of hookah tobacco

amounts to about 274 million lb The stocks of imported tobacco held in bond at the customs warehouses in ports vary from year to year. The amount held in 1930 31 for example was high and the stocks contracted fairly steadily till 1933 34 but have shown a tendency to the subsequently

Apart from the stocks of Indian tobacco held in India about 25 million to 26 million lb of Indian tobacco is held in the United Kingdom. This at the present rate of consumption represents the requirements for about 2½ years which is a normal figure for all kinds of tobacco held in the United Kingdom, the total stocks of which were as high as 500 million lb in 1937.

The financing of tobacco stocks by the district Central Co operative Bank in the Nipami area of Bombuy Presidency shows signs of enterprise. The Bank advances up to 50 per cent of the value of the tobacco through guarantee brokers at the late of about 9 per cent per annum plus an insurance premium amounting to about Re 1 or Rs 1810 per cent per annum. These charges may seem heavy but the business has increased considerably during the past three years. This may be compared with the charges made by commission agents who is since as advance about 75 per cent of the value of tobacco tyred with them at 12 per cent interest Banking facilities for securing advances on tobacco appear to be backward in most districts and in view of the growing importance of the crop the improvement of such facilities needs early consideration.

CHAPTER VIII-HANDLING AND TRANSPORTATION.

A —Handling

(1) ON THE FARM

Bulk of the unmanufactured tobacco is sold on farms, where the methods of handling are simple. The leaf tobacco intended for indigenous types of consumption like bidis, hookah, chewing and snuff , first fied into bundles or hanks which are then arranged in stacks or neaps over a raised platform. The heap is then topped with dried ara's or palm leaves which are covered with gunny cloth or mats The heaps are periodically disturbed at intervals of about two to five weeks and are rearranged the bottom and the middle bundles bong brought over to the top of the heap on each occasion Bidi and hookah tobacco powders are usually heaped on the floor and the heap is then covered with gunny or other cloth As already explained earlier in chapter IV considerable quantities of earth get mixed up while preparing hookah tobacco powder in the field Prior to the sale the growers usually stack the leaf or powders on their holdings either under the shade of a tree or under a that hed roof In the case of cigarette leaf the growers arrange the leaf in the form of bales immediately after it is taken out of the curing barn or sled Similar are the practices with regard to eight and

After purchase the leaf is taken by the buyer or the local dalal, on behalf of the former to the warehouse of the latter where it is generally sorted by different qualities. Sorting work is done by the dalal in accordance with the requirements of the buyer. After sorting the leaf is g, perally arranged in the form of a bundle. In the case of hookah and both tobacco powders the purchaser provides contain its many properties and the piace where purchases are made. These bags are then carted at the buyer s expense either to the railway station or to the ware house of the local dalal through whom the purchase was made to Lusually it is the practice with the buyers to cart these bags to the warehouse of the local dalal for storage and for further processing as in the case of but shouse opurchased in the Chardar area. The bales of cigarette eigar and elevoot tobacco are carted by the biver to his zodown at his own expense.

Handling at the farm is almost invariably done by the grower or the curei and his family and as such the cost of handling is negligible.

(2) AT THE ASSEMBLING AND DISTRIBUTING CENTRES AND RAILWAYS

As expluned earlier in the chapter on Assembling the so called to discoomer-sets are generally secondary markets for assembling and distribution where merchants and warehousemen bring tobacco purchased by them in villages. Even in such cases there is no one cen ral place where the produce is collected in large quantities as happens in the case of wheat or cotton. Generally the warehouse of a ddal or

arbatua serves the purpose of a market. It is the general practice to weigh the leaf on the farm immediately after the price is settled and before it is transported to the assembling and distributing centres In North Bengal and North Bihar areas however sometunes the leaf in hulk is transported by bullocl carts to the warehouse of the local dolol of the distance is short. In such cases, the tobacco leaf is neatly arranged in the earts. After receipt at the warehouse the leaf is sorted into different qualities to suit the requirements of individual merchants and bulked and baled afterwards In the case of hookah tobaceo rowder no further handling appears to tale place in the assembling and distribution centres. With regard to hide tobacco por ders the coarsely crushed leaves as obtained from the growers are reduced to small sized flakes and this is done either by the buyer himself or by the assembling and distributing merchants. For this purpose the ccarsely crushed leaves are further crushed by hand after which the 'ales are passed through sieves of different meshes the preparation of leaf bundles for cheroot chewing and snuff cured leaves are tied into mali bundles the best leaves being place I up; crmost on the outer side of the bundle and the poorer ones in the centre. The bundles are then baled. In the case of cigarette leaf loose bales as received from the growers are untied in the pro cess ng factories and graded into different qualities in accordance nut the grading practices adopted by individual merchants and manufacturers After grading the leaf may be stripped to remove

by the cart men or other labourers employed by the consignees. This work of carting the packages from the varehouse to the railway station and consigning the cases by rail is very often done by a for warding agent (hundekan or mar/faid) who charges a fixed sum for his services. In the Charotar area these charges amount to about 18 18 0 to Rs 28 0 per 100 bags while in the Guntur area the unount comes to 6 amas per bale of 250 lbs. In the United Provinces the charges amount to about a rupee per 100 to 125 manufactures are the sum of the charges amount to about a rupee per 100 to 125 manufactures. The sum of the control of the charges amount to about a rupee per 100 to 125 manufactures. The sum of the control of the charges amount to about a rupee per 100 to 125 manufactures.

Ih railway sheds are generally covered at all the more import ant loading and unloading stations

Except at outlying sidings is sidings away from stations and belonging to a few ergarette factories and when the special freight rate quoted is given on condition that loading and unloading will be don by the consignor at it the consignee the clarges for loading and unloading, at the railway stations are included in the railway freight these services being performed by labour employed by the railway for some railways the labourers engaged in loading and unloading worl are paid monthly wages ranging from Rs 10 to Rs 22 per month while on others the labour is provided by contractors on rates varying from one rupee to three rupees per thousand maunds. There does not appear to be any complaint regarding handling of the tobacco packages at railway stations. Occisionally, a few of the tobacco produce bags get damaged during handling but this appears to be more due to the practice of using old gumn bags for packing. The damage however is considered neighbible.

(3) AT RIVER GHATS

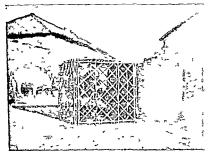
Trade by inland waterways is confined almost entirely to Assam Bee ig dl Bihar Madras and Travaneore and also Burna. The loading and urloading of tobaceo packages is issually done by cooles whose charges came to about 3 pies per maund. These charges have to be pa 1 by the consignor and consignee as they are not included in the bo hire charges.

(4) AT PORTS

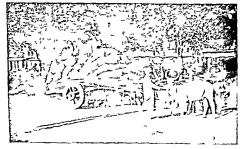
Unmanufactured tobacco is always handled in bales wrapped and tied in gunny cloth or in wooden cases or bogsheads at the ports and the loading and discharging of sea going vessels is done by machinery

(5) CONTAINERS

Containers used for the transport of unmanufactured tobaceo have already been discussed in the chapter on Preparation for Market In the case of tobaceo products eigenettes are first pael ed either in pael et or in tims. The packets are then put into a tlim eard board now. These eard board boxes or tims are then packed in deal wood cases of varying sizes. High class eigenettes are usually packed in cases we guing about 24 mainds and continuing about 25 to 30 thousand eigenettes. Sometimes bigger cases weighing 34 mainds

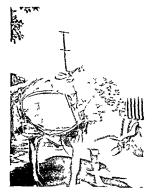


A bamboo crate commonly used in packing ord, in the Central Provinces, along with another packed with bras and wrapped in gunny cloth



A cart loaded with bags of bide tobacco in the Charotar area

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Transport of tobacco by bullocks in the Punjab



Transport of tobacco by donkeys in the Punjab

and containing about 50 thousand eigarettes are used. Cheaper brands of eigarettes are usually consigned in bigger wooden crates weighing 3 to 4½ mands and containing about 50 thousand eigarettes. Some of the high grade eigarettes are sent in smaller packages each weighing 32 eers and continuing 10 thousand eigarettes. Foreign eigarettes and cut tobaccos are usually consigned in deal wood cases each measuring about 3′×23′×2′, weighing about 14 mainds and containing about 15 thousand eigarettes.

Cigars are first packed in small and thin wooden boxes and occasionally in this. These boxes and time are then packed in wooden cases of varying sizes and weights. Some of them measure $2l' \times 2' \times 1$ each weighing about 1l' to 2 maints and containing 3 to 4 thousand cigars. Small cases measuring about $1l'' \times 1l' \times 1l'$ and weighing about $2l'' \times 1l' \times 1l' \times 1l'$ and weighing about $2l'' \times 1l' \times 1$

Bidis are packed in various ways. The most common method is to use bamboo crates wherein the bids bundles are put in and which are then covered with a gunny cloth Before putting into the pack ages, the bidis are first well packed in paper bundles each containing 500 oids The bumboo crate is usually cubical in shape each side measuring 2' and weighs about 11 maunds when packed (see plate facing page 250) It contains about 60 thousand small and 40 thousand large sized bidis. The e crates cost about Rs. 20 per hundred including the cost of coir used for tving the erate times a thin wire is used instead of coir and in such cases the cost of packing comes to Rs 35 per hundred Sometimes bidis are also presed in slightly smaller sized but stronger bamboo baskets each measuring about 21" in length and breadth and 27" in height, to hold about 60 thousand bidis and weighing a little over 1 maund. Such baskets cost about Rs 30 per hundred Occasionally second hand deal wood boxes are also used for packing bidts. Each of these boxes costs about 7 annas weighs 11 maunds when packed and holes about 65 thousand bidis A few manufacturers pack their bidis in ord nary thick gunny bars each holding about 30 the isand bidis and we glung 21 seers when packed.

Manufactured hookeh tobacco is usually packed in hessian cloth. The sizes and the weights of these packares vary even with the same minufacturer. High class chewing tobacco is packed in air tight tims or in bottles while ordinary chewing tobacco is packed in gunny bars, each weighing about a manufa. Sunft is soually packed in bars made of tinch, drill cloth and also in bottles and in tins of various sizes. These bottles and tims are then packed in wooden cases for the purpose of transport.

(6) POSSIBILITIES OF BULK HANDLING

It has been stated before that probably in no other agricultural commodity the question of quality is so important as in the case of tobacco. Its qualitative characteristics often vary from village to village and even from one grower to another. On account of this and the fact that the quality of the leaf is likely to deteriorate by

mere exposure without any container, if not by frequent handling the chances of bulk handling or tobacco as in the case of cotton, wheat and linseed are remote

B-Transportation

Transport—its means and cost—is the most important single factor responsible for the development of trade in any country Transport in India is effected by (1) road (2) rail (3) inland waterways and (4) sea

(1) BY POAD

Almost invariable the farms and the villages are connected to ammetalled or lackshed roads or paths either with the assembling and obstributing centres or with the metalled or jakka roads leading to such centres. On sich roads pack animals and carts are the only modes of converance most suitable for carrying tobacco from the farm to the as-embling and distributing centres. Even for whe modes of converance the roads in some of the producing areas are far from satisfactory. In the Chrodor area for example most of the village roads are kackeka. In fair weather these roads are full of fine dust several inches thick and it is with considerable hard hip that the bullbeks pull the earts along these tracks. Immediately after the tains have set in early in Jinic the e roads become impassable to any kind of converance and the journey from one village to another is to be largerly done on foot.

(a) Pack animals and headloads—The use of pack animals appears to be almost wholly confined to the United Provinces Punjab and Sind the animals not commonly used being camels pointed donkers and bullocks (see plate facing page 2-1). Pack animals are only used when small loads have to be carried over short distances and on unimetalled and sandy roads where the plying of a cart is difficult. The load of tobacco carried by carled comes to about 3 to 6 manude and by points 2 to 3 manufes.

Human labour for carrying tobacco packages as headloads is used for convering small loads over shorter distances say within a miles It is only in the \hat\text{hom} area that fairly large quantities of tobacco are carried as headloads by the \mathbb{U}ahars who purcha e standing crop In the \hat\text{hom} are the fairly that about 5 000 maunds of bids tobacco are carried in this manner by the \mathbb{U}ahars every year

b) Carts—The eart is by far the most important convevance for carting unmanufactured tobacco by road. Two-wheeled bullock eart, drawn by a pair of bullocks are the ones used for carting tobacco throughout the country (see plate facing pare 2-0) Occ., ionally four wheeled camel carts are also used in the United Pro uses and the Punjab. An ordinary bullock cart consists of a wooden frame mounted on wooden wheels which are sometimes shod with iron tyres. The use of iron tyres for the wooden wheels appears to be more common in Bombay and Madras. Carts with pneumatic wheels are not used in carrying the tobacco traffic. This is because of the heavy initial outlay the searcity of good metalled.

roads in the rural areas and the fact that the bulk of the road traffic in unmainta tured tookeen is confined to a short period immediately after harvest when the cultivators themselves are free to ply their indigenous carts for hire

The capacity of a cart varies from one area to another in accord ance with the type of animals drawing the cart the condition of roads In Benzal an average cart can carry only about 8 to 10 maunds of unmanufactured tobacco but in North Bihar the contents of a eart may range from 15 to 25 maunds. In the United Provinces Punjab Madras and Vipani areas a cart can carry on an average, about 18 maunds of tobacco whereas in Burma a cart can hold only about 9 mannds Apart from small quantities carried by headloads and pack animals from the producing villages to the assembling centres the volume of which is estimated at not more than 1 per cent of the total production of tobacco in the country all the tobacco in villages is transported by carts to the assembling centres. The distance over which tobacco may be carried by carts varies in accordance with the extent of area served by a particular assembling centre. In the Guntur market for example tobacco is brought in by carts from villages within a radius of about 25 miles At Palghat market in southern Madras bullock earts bring in tobacco even from a distance of 60 miles while a distance of 50 miles is not uncommon in otler areas of the Madras Presidency and Mysore It appears however that in the bulk of the assembling centres tobacco is carried by bullock carts from villages situated at a distance not ex ceeding 20 miles

The transport of tobacco from the assembling centres to the rail head or river ghat is almost invariably done by builock carts, except in a few areas where the motor transport is available at competitive prices.

(c) Motor transport -- The use of motor lorry for transporting tobacco appears to be more extensively adopted only in the Aspans area of the Bombay Presidency The peculiar situation of the Nipani market with regard to transport has helped in the development of this traffic to a considerable extent Nipani is not a railway station Tobacco from this place has to be railed either at Kolhapur or at Chikodi Road Kolhapur is 25 miles whereas Chikodi Road is 29 miles from Nipani There is however an out agency of the Madras and Southern Mahratta Radway at Appane which acranges for a through booking from Nipani via Chikodi Road The road portion of the journey is done by motor trucks belonging to the railway If tobacco is booked from Nipam tia Kolhapur an additional charge for road transport is taken at the rate of 24 annas per maund Private motor lorries carry tobacco from the Nipani area over fairly long distances Tobacco packages are often transported by motor lorry from Nipani and Sangh to Buapur Dharwar or Belgaum. There are about 12 motor lorries for transporting goods from Sangli Kolhapur and Nipani to Buapur alone each of which charges Rs 32 to Rs 40 per trip carrying about 60 to 80 bags of tobacco On their return journey the lorries bring back grain and cotton bales from Bijapur expense of transporting a bag of tobacco from Nipani to Bijapur by motor forry comes to about 8 annas as against 12 to 14 annas when the transport is done by rail Dharwar is 97 miles from Nipam and it costs only 10 annas to transport a bag of tobacco by motor forry from Nipam to Dharwar. Several merchants find it chesper to book Nipam tobacco at Belgaum by rail The road distance between Belgaum and Nipam is 48 miles and the hire charges by bullock caits und lot ries work out to about it to a numa per bag of tobacco. The development of motor traffic in the Nipam area is very largely due to the existence of good palls a roads the other factors responsible being that the motor forries are economical because of quecker transport chepter freight convenience of receiving goods at the godown of the sender and delimination of carting 1 andling and other charges to and from the railway station. The formatitues to be gone through at the rail way station for booking goods are also saved

(d) Aerial ropeway—The transport of tobacco by aerial rope way in Devicolom in Transneore appears to be unique. This rope way rises to the height of 4000 feet above sea level. It is owned by the Kannan Devan Hills Produce Co. Ltd. and used principally for transporting tea from the estates on the hills down to the plains Munnar is the chief assembling and distributing centre for raw tobacco in the Devicolam district and gets tobacco from Bodunakanuur in Madura district by means of the aerial ropeway. The cost of this mode of transport works out to about Rs. 19 per ton over a ropeway distance of 28 miles.

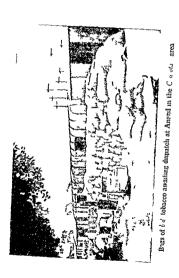
(e) Cost of conveyance—The cost of transport by road is justiled by a number of factors such as the condition of roads the availability and the demand for earls season distance covered and the chances of securing loads on return journey. The hire charges on pall a roads are usually loner than those prevailing on lackeds roads. Generally long distance, hauls are cheaper than short distance ones. The live charges during the summer months are lower than those prevailing mimediately after the monsoon sets in

The average eart hire charges come to about 3 to 4 pies per mrund per mile. In Bihar and the United Provinces the charges are 18 low as 1 to 2 pies per mile per maund on pākka roads and double the amount on kuchcha roads. In Pengal Charotar and Nipani eart hire charges come to about 3 to 5 pies per maund per mile while in the Punjab they come to about 6 pies per maund per mile

The hire charges by motor lorry come to about two thirds or finethurths of the vari have charges while charges for carrying to acco by pack animals range from d to 6 pies per maind per mit Libour charges for carrying tobacco on headloads vary from 6 to 8 mess per maind per mile

(2) By RAIL

(a) Extent and direction of movement—The bulk of the trade in innantactured tobacco moves by rail. The average recorded imports and exports of unmanufactured tobacco by rail (and river) into and



from the main provinces and trade blocks for the three year period, 1934-30 to 1936 37, are given in Appendix LIXIV and the directional movement illustrated in the diagram facing this page

The annual average recorded traffic in unmanufactured tobacco by tail (and 11ver) is 32 30 000 manufac Of the total quantity exported room the different proxinces and trade blocks 89 per cent is accounted for by the four main tobacco producing proxinces, Madias B har Bombay and Bengal. The share of Madras comes to 27 per cent of the averare exports while the quantities accounted for by Bihar and Oriva Bombay and Bengal coine to 28 18 and 16 per cent respective.

In spite of the fact that Bengal stands first among the Indian proximes with regard to tobacco production the imports of unmanu factured tobacco into Bengal are large as compared with the imports into the other main tobacco producing provinces Bull of these imports are however taken by Calcutta which is a large distributing centre for all tryes of tobacco. Almost four fifths of the imports into Bengal are drawn from Bihar and Orissa and about 16 per cent from Madrias. The recepts from Bihar and Orissa comprise almost entirely of hookah and chewing tobaccos while those from Madrias mainh of eigaretic leaf. Almost three fifths of the outward traffic in unmanufactured tobacco from Bengal goes to Assam and all title more than 30 per cent to Bihar and Orissa. The despatches are mainhy of kookah and chewing tobaccos.

The average exports from Bombay Presidency come to about 47 000 maunds as against 58 000 maunds of imports. Over four-fifths of the exports are taken by Central Provinces and Berar, Central India and Rajputana. A large quantity of eigarette tobacco is imported from Madras.

Madras exports on an average 424 000 maunds while at imports only \$9 000 maunds. The outward despatches occur mostly from the Guntur trea and Wadras and comprise mainly of cerarette tobacco exported to Bengal Bihar Bombay Wrsore and Hyderabad. The exports to the Central Provinces and Berar consist almost entirely of excaps and rejections from eigarette leaf from the Guntur area. The imports consist mostly of bid tobacco about \$8\$ per cent of which are received from Wrsore and about \$9\$ per cent from Bombay.

About three fifths of the imports of numanufactured tobacco into Bihrir and Orissa are received from Bengal and one third from Madris Tobacco received from Bengal is mainly of hookah tipe while that received from Madris is eigenfelte leaf. Bihar his got a larce outwind traffic the annual average exports being 894 000 maunds. About 45 per cent of the exports are despatched to Bengal and about two-fifths to the United Provinces. The other important areas where Bihar tobacco is exported are the Central Provinces and Assam

The average annual traffic in unmanufactured tobacco for the United Provinces is about 478 000 manuals imports and 183 000 manuals exports. Nearly three fifths of the exports are taken by the Punjab and about one-fourth by Rajputana Bulk of the imports

(nearly four fifths) are obtained from Bihar. Over 70 per cent of the imports of unmanufactured tobroco into Punjab are received from United Provinces. The bulk of the remainder is imported from Bombay and Sind Exports from the Punjab are small and sent almost entirely to the United Provinces Kashmir and Sind

- Central Provinces and Berar are almost entirely an importing area. About 54 per cent of the imports are received from Bombay and 24 per cent from Bihar. Imports from Madras come to about 17 per cent Assam is also an importing province. The average annual imports into Assam come to about 192 000 maunds as against 13 000 maunds of exports. The imports are received almost entirely from Bengal and Bihar.
- (' Latuaj freight —There are three systems of charging rail way freights unz (i) class rates (ii) schedule rates and (iii) station to station rates
- (1) Class rates —Ordinarily the station to station rates are the lowest freight rates the schedule rates standing in between the elass rates and station to station rates. In looking for the rates of freight charges therefore one has to first find out whether any station to station rate is not applicable. If the station to station rate is not applicable then the schedule rate has to be searched for and in case both the station to station and schedule rates are not found applicable for any station the class rate is then applied. For arriving at the class rates all commodities are divided into 16 classes for each of which the maximum and minimum rates are fixed by the Railway Board as follows.—

Class	Maximum rate per maund per mile (pies)	Minimum rate per maund per mile (pies)
1 2 2 A 2 B 2 C	38 42 46 50 54	100
3 4 4 A 5 B 6 C C A 7 8	58 62 67 72 77 83 89 96 1 04 1 25 1 87	166

The grouping of commodities into classes is done for the pur pose of arriving at the rate to be charged when no station to station or schedule rate is quoted and for fixing the maximum and minimum rate per maind per mile within the limits of which all rates, of whatever kind, must be kept, subject to exceptions specially authorised by the Railway Board Ordinarily, the maximum rates are charged by the railways, but where class rates are quoted to a figure lower than maximum rates these are called adjusted class rates

Indian unuanufactured tobacco falls in class 4A for which the tate of freight charged is 67 pie per maund per mile at railway risk. The class rate charged by most of the important railways however, is in accordance with class 4 of the above classification for which rate is 62 pie per maind per mile. Imported tobacco is charged at class 3 rates (railway risk) and at class 4A rates (owner s risk), except on the Madras and Southern Mahratta Railway where the freight is charged at class 4A rates (railway risk) and class 4 rates (owner s risk).

Where station to station or schedule rates do not exist cigarettes indian eigars cheroots and bidis are charged at class 6 rates at rail way rish. Imported cigars are charged at class 8 rates (railway risk), while ordinary class rates for manufactured hookah, chewing and sunff tobaccos and processed bidi tobacco are at class 4B (railway risk) and class 4A (owner's risk). Most of the railways, however, charge freight for these types of tobaccos at class 4A rates at railway risk, and class 4 rates, at owner's risk.

(11) Schedule rates—A schedule rate is a rate quoted on a basis lower than the maximum rate of the class. It may be on a uniform basis such as 2:00 pie per maund per mile or it may vary according to distance or weight on the telescopic (cumulative) principle. A chedule rate may be quoted either per maund or per ton or per wagon On the Eastern Bengal Railway, excepting for small modifications, the rates charged on unmanufactured tobacco produced in Bengal are telescopic schedule rates as under—

For the first and up to 150 miles

•380 pie per maund per mile

For extra distances above 150 miles but not exceeding 250 miles to be added to the charge for 150 miles

250 pie per maund per mile

For extra distances above 250 miles but not exceeding 400 miles to be added to the charge for 250 miles

125 pie per maund per mile

For extra distances above 400 miles to be added to the charge for 400 miles

115 pie per maund per mile

The major railways offer concessions for wagon loads of eigartees for which freight is charged at class 4A rates at railway risk and class 4 rates at owner's risk, provided the minimum weight of the consignment and the minimum distance travelled are 160 manufed and 400 miles respectively. The Benneal Nagpur Railway offers the same concession to bids with an additional condition in regard to packing. Bids must be made up into bundles of 25 and arain backed in strong untearable cross paper in bundles of 500 and packed in MIGAR.

sound regular shaped gunny packages or strong bamboo boxes (Petuas) and the sender has to make a declaration to this effect on the consignment note

(iii) Station to station rates—These are special rates for distances between two specific points quoted on the basis of the principle what the traffic can bear in cases where the normal class or senedule rates cannot be profitably applied owing to competition from motor lornes other means of road transport steamers and other railways. In actual practice the Bombay Baroda and Cetral India and the Madras and Southern Mahratta Railways have applied station to station rates to a large number of stations in the Charotar Angoni and Grafter area.

Specimen station to station or special freight rates on unmanu factured tobacco between a few of the important producing and consuming centres are as shown below —

	From	То	Railway	Distance (Miles)		s n	ate	ch	ate arge per	ed
1	Anand	Howrah (via Agra	ввъ	536	Rs	A	P	Rs	A	P
		Cantt)	EI	-94						
				1 330	4	4	8	1	14	0
2	Nadiad	Do	BB&	547						
			EI	794						
				1 341	4	5	3	1	14	0
3	Nipani (Out Agency)	Shal mar—Calcutta (tss Chikodi Road	мазм	789				ļ		
	Agency	and Waltair)	BN	545						
				1,334	4	9	0	2	0	0
4	Sanglı	Shahmar—Calcutta (via Waltair)	M &S M	835	Ì					
			BN	545						
		1		1 380	4	8	3	2	0	U
5	Jayasıngpur	Do	и & S М	837						
		l	BN	545						
			1	1 382	4	8	9	2	0	0
6	Kolhapur	Do	MASM	859						
		-	BN	545	j					
		1		1 404	4	9	11	2	0	0

Similar concessions of special rates are given for traffic from fountir to Bombay, Andheri, Boruvii and Bandra where eigarette factories are located. There is, however, a much larger traffic in eigarette tobacco from the Giuntur area to Calcutta and Monghyr to which places special rates are quoted from Giuntur and Chirala with certain conditions in regard to the amount of load and handling. The conditions and the special rates quoted from Giuntur and Chirala to Shahmar and Monghyr as compared with the calculated class rates are given below.

Calon | Spanis

From	To	Railway	Distance (Viles)	lated class rate (per maund)		lated class rate (per		lated class rate (per		lated class rate (per		cha	ate rge per	:d	Conditions
Guntur	Shalimar—Calcutta (rsa Tenali and	M &S M	237 545	Rs	Δ	P	Rs		P						
	Waltair)		I												
Chirala	Monghyr (ria	M & S M	782 273	2	9	9	1	8	7	OR W/200 L and W/120 if packed in					
Сщина	Raltair and Asan		605							casks					
		EI	164												
			1,042	3	6	10	2	3	11	OR C/400, I. and W/120 if packed in casks					
f-antur	Do	изви	253				,			Cases					
	}	BN	605			i									
	1	EI	164			1									
~ ~~~			1 022	3	5	0	2	3	3	Do .					

In spite of these special or station to station rates given by certain railways on Indian numanifactured tobacco it may be observed that the railway freights are not in proportion to the value of tobacco or tobacco products transported. Thus, while a maind of numanifactured tobacco, which may be worth even less than Rs 10, is charged at 62 pie per mile, a maind of cigarettes valued at Rs 140 or even more is charged only at 83 pie per mile. The rate for buls is the same as for cigarettes though the value of the former may be only about Rs 50 per maind, or just a little over one third the value of the latter.

^{*} OR = Owner a risk C/400 = Minimum coneignment of 400 maunds W/120 or W/200 = Minimum wagonload of 120 or 200 maunds L = Owners to load and unload.

To all the three systems of charging railway freights, an addition is made to the freight rates on account of short distance charge which is usually 3 pies per maund for bookings to a distance of less than 70 miles. Further, additions are made on account of terminal charges.

(c) Terms of booling-As soon as the packages containing tobacco or tobacco products arrive at the railway station vard, they are taken charge of by the goods clerk, weighed, labelled and loaded into a wagon Usually all packages in a small con ignment are weighed. But if it is a wagon load consignment only about 10 to 20 per cent of the packages may be weighed provided all the packages of the consignment are of the same size and weight and it is de-lared by the consignor that the weight of each of them is the same

Charges on account of loading and unloading at the railway stations are included in the freight, except at special sidings of cigarette factories or when the special rate quoted by the railway clearly indicates that the loading and unloading will have to be done by the congruor and the congrue The goods and delivery clerks are responsible for supervising the loading and unloading work done by the railway cooles. The watch and ward staff of the rail ways look after the goods awaiting shipment and delivery Generally, all packages are kept under covered goods sheds, but during rush periods when sufficient space in the goods heds is not available, they are kept in the open on the platforms awaiting loading in the wagons (see plate facing page 2-4) When the packages are lying in the open for a show time tarpaulin cloth may be used as covering to protect the goods from exposure to the sun and the rain.

Indian unmanufactured toba co is generally booked at railway risk except on the Eastern Benral Rahway which quotes chedule rate at owner's risk and on the Madras and Southern Mahratta Ranway was h offers pecially reduced ra es boween cortain points at owner - risk. Cigarattes cigars cheroot and bidis are normally booked at railway risk. In the cale of cigarottes, however booking can be done at owner a risk also when the consemment is a waron load. Similar concession is given for bidis booked by the Bengal Nagpur Railway in wagon loads. Processed or manufacture I hoolah, chewing, bids and snuff tobaccos and imported tobarco can be booked either at railway risk or at owner's risk

Tobacco and tobacco products are invariably transported in covered wagons On the narrow gauge lines the capacity of a wagon may range from 9 to 11 tons, while on the broad gauge it may be 14 to 24 tons. Generally no in uffic ener of the supply of wagons is experienced in any of the important tobacco producing areas.

Domurrage is levied on vehicle ordered and waiting to be loaded by consumors or on loaded vehicles waiting to be unloaded by consignees when the time allowed free by railways for loading or unloading the con coments is exceeded. Wharfage on the other hand, is levied on goods waiting at a station to be consigned, i.e., brought to the station but for which a consignment no e has not been received or on goods waiting to be delivered after they have been

made available for delivery, when the time allowed free by rail-ways is exceeded. The free time allowed before demurrage accrues is 9 hours of daylight after which demurrage is charged at the rate of I anna per ton per hour on the capacity of the wagon. The free time allowed before wharfage accrues in respect of consignments waiting to be consigned is generally upto midnight of the day next following that on which goods are brought to the station, and for consignments waiting to be delivered, ranges from 24 to 72 hours according to the nature and importance of the station and the facilities for storage available in the goods shed. The wharfage charges are usually recovered at the rate of 3 pies per maund or part of a manund per day or part of a day in excess of the free time

Apart from the railway freight, the consignor and the consignee have to spend a small extra amount on account of miscellaneous expenses at railway stations to facilitate booking, proper handling of the packages and delivery

(3) BY INLAND WATERWAYS

The main attraction for transport by inland waterways is its comparatively lower coxt. It is, however always a slower means of transport than railways, more particularly when country boats are made use of Other disadvantages are that the boatner frequently tamper with tobacco packages and that tobacco is always likely to be damaged on account of the humid atmosphere and insufficient protection from sun and rain and against water percolating through the seams in the sides of country boats.

There are three kinds of inland waterways, etc., river, cand and backwaters Traffic in tobacco by inland waterways is almost entirely confined to Assam, Bengal Bihar, Madras, Travaneore and Burma Bales of tobacco carried by the river steamers are recorded for some stations by the Department of Commercial Intelligence and Statistics, and included in the Rail and River borne Trade Returns published monthly but no records exist of traffic by country boats which handle the bulk of the tobacco traffic by internal water wats

There is considerable variation in the carrying capacity of country boats. In Bengal, a country boat can carry, on an average, about 400 maunds. In Bihar on the other hand, the boats are smaller with a capacity of 100 to 150 maunds. In Assam, the capacity ranges from 40 to 300 maunds, while in Burma it is from 30 to 130 maunds. In Travancore, the boats hold on an average ff0 to 120 maunds of tobacco. Boats of larger capacity are generally used for long distance transport.

Bengal—In Bengal, it is estimated, that about half the produce this is moved by river from the producing to the assembling and distribution centres. At least half the export of Bengal tobacco to Bihar are transported by river, of which about two-fifths are carried by country reafts and the rest by river steamers. The transport charge by country boat from Cooch Behar to Manickgunj (about 300 miles) comes to about 5 to 8 annas per maund, with an additunal insurance charge of Rs 2 per 100 rupees worth of tobacco.

The freight from Cooch Behar to Jalakatı (400 mles) comes to about 4 to 8 annas per mund in addition to the insurance charge of Rs 2 per 100 rupees worth of tobacco. The steamer freight charge by river from Calcutta to Patna comes to about Re 0 11 9 per maund by against about Rs 11 0 per maund by rail

Bihar—About a third of the total traffic in unmanufactured took of which is carried by the country craft Almost all the work of carrying tobacco from North to South Bihar across the river Ganges is done by country boats. Long distance transport is usually done by river steamers belonging to the India General Steamer Navigation Company or the Bengal and North Western Steamer Navigation Company Generally the country boats charge about half the fare charged by river steamers. For example while the steamers charge about 8 to 9 annas for carrying a maund of tobacco from Patna to Daeca the country boatmen charge only 4 to 6 annas per maund for the same distance.

Hadras—Considerable amount of tobacco moves along canals of the Kistna and Godavari rivers Laulas tobacco is transported upto Kayahmundry and Coconada while canal traffic as far down as Madras also tales place along the Buckungham canal Canal transport alo occurs in Guntur to Coconada for export trade. The annual volume of traffic that moves by these canals in tobacco and tobacco products ranges from 3 to 4 thousand tons per year. From Guntur part of the shipments to Coconada are transported by eatal from Cubrole 9 miles from Guntur The rativas freight from Guntur to Coconada comes to about Rs 1140 per bale of 250 lb while the canal trun-port from Chibrole to Coconada costs only 6 annas per bale in addition to which 2 annas have to be paid on account of cart her from Guntur to Chibrole

Asson — Ure than laif the annual rade as well as the import trade in Asson takes place by river river stemers being more extensively used for the purpose than the country craft. The imports of tobacco from Bengal and Bihar are very largely effected by river transport. The freight for sending tobacco from Kharupetia of Gauhari about 3 to 40 miles apart by boat and steamer works out at 1 anna and 34 annas per maund respectively. The charges by river stemers from Patna to S, bliet work out at about 4 to 5 annas per maund while from (ooch Behar to Ajmergan) come to 12 annas to one rune per maund.

Transnort—Trayaneore has over 200 miles of canals and back waters and transport by water dominates other forms of transport Most of the important distributing and consuming centres in the central and north Trayaneore get their supplies of tobacco by rail to Ernal ulaim in Cochin State and thence by bad waters to Trayan core. The cost of transport works out at 4 pie per maund per mile.

Burma —In Burma tobacco is mostly grown on river banks and islands and the chief means of transport from the producing area to the assembling and terminal marl ets is the country boat carts being

employed, in the first instance to carry tobacco from the cultivators' holdings to the boat The transport charges by country boats work out to about an anna per 360 lb per mile. The rates of freight charges by the river steamers belonging to the Irrawaddy Flotilla Company per 100 vrss (350 lb) of tobacco from Myingyam to Rangoon (550 miles) come to Rs 420 while from Henzada to Rangoon (447 miles) work out to 12 annas. The special rate charged by the Burma Ranlways from Myingyam to Rangoon is Rs 4130 per 100 vrss (360 lb)

(4) By SEA

(a) Coastal trade — There is a considerable amount of ceastal trade in tobacco and tobacco products in all the maritime Indian Provinces and Burma There are two distinct types of coastal trade, one among the ports of the same province and the other from the ports of one province to those of another

The volume of internal coastal export and import trade among the ports of the same province ranges from 3 3 to 3 6 million lb of tobacco and tobacco products valued at 12 to 15 lakhs of rupees Over 70 per cent of this trade consists of unmanufactured tobacco, the remaining being accounted for by tobacco products of which eigareties account for a third

The bull of the coastal trade is however inter provincial. The total coastal export trade of the five maritime provinces of India, Bengal Mudras Bombay, Sind and Orissa comes to about 21 3 million lb valued at 128 5 lakhs of rupees (average for 3 years ending 1936 37). Of this volume ummunfactured tobacco accounts for 15 6 million lb valued at 27 8 lakhs of rupees. Export of cigarettes come to about 3 million lb valued at 87 2 lakhs of rupees, while those of other sorts of manufactured products come to 2 7 million lb valued at 13 5 lakhs of rupees. The average total coastal imports amount to 5 8 million lb valued at 49 4 lakhs of rupees, of which unmanufactured tobacco accounts for 6 5 million lb valued at 27 1 lakhs of rupees and other sorts of tobacco products 1 7 million lb valued at 28 9 lakh so frupees and other sorts of tobacco products 1 7 million lb valued at 8 9 lakhs of rupees.

Figures of annual average coastil export and import trade in tobacco and tobreco products of the maritime Indian privinces and Barnas are even in Assemble LET.

On an average Bengal imports 3.8 million lb of Indian un manufactured tobacce chiefly from Bombay and Burma and to a small extent from Madras valued at 5.3 lakhs of rupees Coastal imports of eigarettes, into Bengal on an average come to 16,000 ib valued at 7.5 lakhs of rupees Bulls of these eigarettes are received from bind Madras and Burma Imports of other tobacco products come to 37.0 000 lb valued at 2.4 lakhs of rupees and consist mainly of bids, cigars and cheroots from Madras, cheroots from Burma and small quantities of bids and pipe tobacco from Bombay Coistal export trade of Bengal is much larger, consisting very largely of unmanufactured tobacco, the average annual exports of which come quantities are also exported to Karachi, Kathiawar ports Portuguese territory and Travaneore About 259 500 lb to garacties valued at over 12 lakhs of rupees are exported about half of which are sent to Karachi A little over a third is exported to Madras while the remainder is shipped mostly to Kathiawar ports Exports of other tobacco products consisting almost entirely of bids, come to about 15 million lb valued at 5 5 lakhs of rupees Over four fifths of these exports are sent to Madras the remainder being shipped to Kathiawar and Portiguese ports Travaneore and Bengal

The coastal export and import trade in tobacco and tobacco products in Sind is smaller than that of Bombay Karachi imports on an average about 1 1 million lb of unmanufactured tobacco valued at 1 9 lakhs of rupees About 90 per cent of these imports are received from Burma Bengal and Madras in almost equal shares The remaining portion is received from Bombay Kathiawar ports Imports of eigarettes on an average 138 000 lb valued at a little over 10 lakhs of rupees received almost entirely from Bombay Imports of other tobacco products con sisting almost wholly of eigars cheroots and bidis come to 90 000 lb valued at 1 o lakhs of rupees Bidis are received almost entirely from Bombay while eights and cheroots are obtained from Madras and Burma Sind has also got a small coastal export trade. On an average about 79 000 lb of unmanufactured tobacco worth Rs 13 000 is exported very largely to Kathiaw r ports and Bombay Exports of cigarettes come to about 10 000 lb valued at Rs 46 000 about half of which are sent to Bombay while the remainder is shipped almost entirely to Calcutta

Orissa has the smallest coastal trade which consist almost entirely of imports of unmanufactured toborco which on an average come to about 160 000 lb valued at Rs 14 000

Burma has got the largest coastal import and export trade in tobacco and tobacco products as compared with any of the five mari time Indian provinces. On an average Burma imports about 12 million lb of unmanufactured tobacco valued at 21 7 lakks of rupees Almost 90 per cent of these imports are received from Bengal and the rest from Madras Imports of cigarettes on an average come to 1 8 million lb valued at 55 6 lakes of rupees. About three fifths of these cigarettes are received from Madras and the remainder from Bengal Imports of other tobacco products consisting mainly of eigars bidis and prepared hookah and chewing tobaccos come to about 270 000 lb valued at 2 1 lakhs of rupees Cigars are wholly received from Madras while all the bidis and prepared hookah and chewing tobaccos re obtained from Bengal The coastal export trade of Burma is smaller. On an average about 2 3 million lb of unmanufactured tobacco valued at 2 lakhs of rupees are exported almost wholly to Bengal Small quantities are also sent to Madras and Sind Exports of exparters on an average come to 18 000 lb valued at Rs 63 000 About 80 per cent of the "garettes are sent to Madras and the remainder to Bengal Exports

of other tobacco products the bull of which consists of cheroots come to 214 000 lb valued at 15 lall hs of rupees on an average About halt of these exports are sent to Bengal while the balance is shared by Vadras Bombay and Sind

The rates of freight on tobacco transported by coastal steamers vary from time to time in accordance with supply and demand. The existing freight rates on unminufactured tobacco from Calcutta and Chittagong to Rangoon range between 8 to 9 annas per maund Certain steamship companies give a rebate of 15 per cent on these rates From Bombay to Cochin and Travancore ports the present freight rates come to Rs 920 per shipping ton of 20 cwts less 10 per cent rebate. The freight charged for shipping unmanu factured tobacco from Madras to Calcutta (for bales) and Rangoon (for bales and cases) is Rs 11 and Rs 32 8 0 respectively, per ship ping ton of 20 cwts or 50 cubic teet. When tobacco bundles are shipped from Madras to Rangoon the freight charges are Rs 2 10 0 per 168 lb Specially reduced freight rate appears to be given by a shipping company on tobacco shipped from Coconada to Calcutta which comes to only Rs o per ton of 10 cubic feet. The freight from Coconada to Rangoon is Rs 4 per bundle of 168 lb

(b) Foreign trade — This has already been discussed in Chapter I Exports of unmanufactured tobacco are the most important accounting for nearly 97 per cent in quantity and 95 per cent in value of the total annual exports of tobacco and tobacco products to foreign countries Over three fifths of the exports of unmanufactured tobacco occur through the ports of Vladras Boml y comes for about one fifth while exports from Bengal and Burma come to about 11 and 8 per cent respectively of the total exports of unmanufactured tobacco.

Tobacco for export is shipped by one of the regular steamer services. As compared with the exports of some of the other agricultural products lile cotton jute and oilseeds the exports of tobacco are small and as such in no case tobacco is shipped in full cirgoes by chartering a whole steamer. It is always shipped in small lots hown as parcels

Ordinarily rates of freight vary from month to month in accordance with the supply of and demand for space in vessels. This is qualified, so it. Simbles, which is a free mank it far froughts at Calciutta and Vadras however the freight rates are determined periodically by a conference of the shipping lines. A rebate of 10 per cent is granted under certain conditions to shippers provided they ship all their consignments by the conference steamers. The rebate is generally given only on exports to the United Kingdom ports.

The rates of freight on unmanufactured tobacco are charged on the basis of volume Almost all the tobacco shipped from Bombay is exported to Aden. The existing freight rates from Bombay to Aden are Rs 1-40 per cwt for unmanufactured tobacco packed in gunny bogs and Rs 1280 per 10 cube feet when packed in bales Prior to June 1937 the rates of freight on tobacco exported from Madras to the United Kingdom ports were as below —

adras to the Office	Per 50 ct	ibic feet	
	Ports	Bales	Casks
		£ , d	£ s d
London			0 45 0
Laverpool		0 50 0	0 45 0
Manchester		11	l
Glasgow		0 72 6	0 70 0
Belfast		0 58 6	0 53 6
Southampton		0 62 6	0 55 0
Bristol		0 55 0	0 50 0
Avonmouth		une 1938) the freight i	<u> </u>

From June 1937 to date (June 1938) the freight rates have been as below -

s below	Per 50	cubic feet	t	
	Ports		Bales	Casks
			£sd	£sd
London			1	
Laverpool			0 50 0	0 50 0
Manchester			11	
Glasgow			0 77 6	0 75 0
Belfast			0 63 6	0 58 6
Southampton			0 67 6	0 60 0
Bristol			0 60 0	0 55 0
Avonmouth				to time The

The freights from Coconada var. from time to time The existing rates to Japan range from Rs 11 S0 to Rs 14 per ton of 50 cubic feet, varying with different shapping companies and in

accordance with the port of destination while those to London come to about 52 shillings for the same quantity From Madras to Japan, the present freight charges come to about Rs 178 0 per ton of 50 cubic feet Exports from Calcutta port are small and freights to the United Kingdom ports range from 45 to 49 shillings for tobacco in bales and from 50 to 55 shillings for tobacco in hogsheads per 30 cubic feet The freight to Japan from Calcutta on unmanufactured tobacco comes to about Rs 20 per 50 cubic feet

The large quantity of Jaffna tobacco imported from Ceylon into Travancore arrives by sea in small sailing vessels (schooners). These schooners are driven by wind and in good weather take about 3 days from Jaffna to Quilon. After stopping in Travancore for 3 to 4 days they carry back fishing cances titles and timber to Geylon. The capacity of a moderately sized schooner is about 67 tons. The cost of transport of tobacco from Jaffna to Quilon amounts to about Rs. 15 to Rs. 17 per ton

[Handling and transportation

INTER-CHAPTER EIGHT

Excepting the powdered bidi and hookah tobaccos which, to some extent are handled in bulk on farms, all types of tobacco are handled in containers such as guiny bags, bales, boxes and hogsheads. On account of the large variations in quality, even in the same type, and the fact that the quality of the leaf deteriorates by exposure and frequent handling, the possibilities of bulk handling of tobacco are remote

One outstanding feature of the trade seems to be the frequent sorting and re-sorting of the unmannfactured tobacco at almost every stage. It seems that the necessity for this constant handling to suit the requirements of different merchants and manufacturers could be minimised by the adoption of standards in regard to quality, mosture contents and packing

Most of the traffic in tobacco moves by rail, the annual average traffic in unmanufactured tobacco by rail (and river) being over 32 lakhs of maunds railway freight forms a high proportion of the total costs of distribution, particularly in the case of cheaper types of unmanufactured tobacco like hookah and chewing The rates of freight are not in proportion to the value of tobacco or tobacco products transported . Thus, while a maund of unmanufactured tobacco, which mar be worth even less than Rs 10, is charged at 62 pie per maund per mile, a maund of cigarettes valued at Rs 140 or even more is charged only at 83 pie per mile The rate for bidis is the same as for cigarettes though the value of the former may be only about Rs 50 per maund, or just a little over one-third the value of the latter

Transport by road is of importance only in areas like Nipam where good metalled (pakka) roads exist

In the Nipam area, merchants often prefer to trans port their tobacco packages by road in motor lorries to Belgaum, Bijapur, Dharwar and other places in the south of the Bombay Presidency. The expense of transporting a bag of tobacco from Nipam to Bijapur by motor lorry comes to about 8 annas as against 12 to 14 annas when the transport is done by rail. Even after paying a little extra, merchants prefer transport by motor lorry because of the quicker transport over short distances the convenience of receiving goods at the go down of the sender and delivering them at the consignee's place, elimination of carting, handling and other charges to and from the railway station and the saving of for malities that have to be gone through at the railway station in booking goods.

The competition from rivers, canals and backwaters is confined almost entirely to Assam, Bengal, Bihar, Madras, Travancore and Burma Transport by water is cheaper than by rail For example the steamer freight charge by river from Calcutta to Patna comes to about Re 0 11 9 per maund as against about Re 1 10 per maund by rail The railway freight from Guntur to Coconada comes to about Re 1 14 0 per bale of 250 lb, while the canal transport from Chibrole to Coconada costs only 6 amias per bale, in addition to which 2 amias have to be paid on account of eart hire from Guntur to Chibrole In Travancore, the cost of transport by back waters comes to about 4 pie per maund per mile as against 62 pie per maund per mile charged by railways on unmanufactured tobacco on the basis of class rates

There is considerable interprovincial coastal trade, the average total coastal export trade being about 21 3 million lb valued at 128 5 lakhs of rupees

CHAPTER IX -- WHOLESALE DISTRIBUTION OF HUMANUFACTURED TOBACCO

The movement of the produce from the grower to the wholesaler or manufacturer or the first buyer has already been described in Chapter V on Assembling, after which the next stage in the passing of unmanufactured tobacco from the producer to the con sumer is distribution. Almost all the agencies engaged in the assembling of tobacco also function in its distribution

A-Agencies and methods

The distribution of ummanufactured tobacco is done by one or of the following agencies (1) Growers professional enters village merchants and moneylenders (2) Commission agents and wholesalers (3) Manufacturers (4) Co-operative societies and (5) Exporters

(1) Growers, professional curees, village merchants and moneylenders

As has already been explained earlier the bulk of the crop is sold in villages by the growers, professional curers village merchants and moneylenders to the wholesale merchants manufacturers and exporters In all the tobacco producing areas, however, a tew growers sell small quantities direct to consumers of their own and neighbouring villages. Sales of this type are not however, popular with many growers for the reason that besides the demand being uncertain and irregular they are often forced to sell the produce to friends and other acquaintances on credit Occasionally the growers also sell their produce to retailers at the local fairs and hats and there are a few cases where the produce is carried by the growers over tairly long distances for the purpose of sale direct to consumers small retailers and manufacturers. Thus for example in Bihar it is a common practice with a number of growers to seil a small quantity of leaf every time the local fair or hat is held and it is estimated that about 85 000 maunds of tobacco is disposed of by the Bihar growers in this manner. In Bombay Gujerat a lew growers from the Sanand taluka carry their tobacco from village to village in their own carts for sale in parts of Kathiawar and Cambay From these people annual requirements of tobacco are purchased by small retailers and manufacturers in Kathiawar and Cambay through the local dalals who take the responsibility of pay ment of money to the growers on getting a commission of an anna per maund The cartmen proceed on their way distributing tobacco and collect money on their return journey The quantity of tobacco thus distributed is, however, small being esti mated at about 2 000 maunds every year. In the Charotar area also there are a few cases of growers who book their supplies augmented by purchase from neighbours by rail to Bardoli taluka of Surat district and sell them in the villages of that tract by hiring cut earts to visit several villages for selling Similar direct sales to consumers and retailers of small quantities of unmanufactured

tobacco are found to be prevalent in the Anjani area, but it appears that the practice of selling to consumers in the annual fairs is more common in this area. Thus at the annual fair of Aerad in Satara district it is estimated that over 3 000 manufas of unmanufactured tobacco are sold by the growers to consumers who assemble at the fair. It is estimated that in the whole of the Bombay Presidency about 10 per cent of the annual production is distributed by the growers themselves to the small retailers small manufacturers and consumers. In other provinces where tobacco is grown on a smaller cale the distribution of the surplus is very largely done by the growers by selling direct to retailers or consumers. Thus, in the Central Provinces and Berar where 90 per cent of the production is almost invariably disposed of by selling to small retailers and consumers in the local village bazzars.

The professional curers who buy green leaf from the growers, almost invariably sell their cured leaf to wholesalers manufacturers and exporters usually in villages. The village merchants and moneylenders also part with their produce in a similar manner but more often in markets.

(2) COMMISSION AGENTS AND WHOLESALERS

The commission agents and wholesalers who make their pur chases mostly in villages through or from the village dald bana or monevlender form probably the most important link in the chain of distribution of unmanufactured tobacco. These agencies assemble and distribution of unmanufactured tobacco. These agencies assemble and distribution of the total annual production apart from the purchases made directly from villages by big manufacturers. Bull, of the requirements of the raw material as demanded by manufacturers are supplied by the commission agents and wholesale merchants. It is these agencies who act as stockists and supply unmanufactured tobacco throughout the year

Vost of the leading commission agents and whole-alers who operate in big consuming centres and leading distributing markets maintain their own organisation in the producing area which is kept constantly informed of the market conditions. This is particularly so in the case of bid; togarette eigar and cheroot tobacces in the case of other commission agents and wholesalers they leep their clients regularly informed about supply and price conditions in the market.

(3) MANUFACTURERS

Almost all the leading manufacturers of elgarettes and bidls matches their purchases direct in the villages of production with or without the help of the local dalats in the producing areas. The Tobacco Manufacturers (India) Lidi and the Cigarette Manufacturers (India) Lidi and the Cigarette Manufacturers (India) Lidi make their purchases through the Indian Leaf Tobacco Development Co. Lidi which buys eigerette leaf direct with the growers and profess onal curres either by making contract with the growers and current to which a reference has already been made earlier or in the open market in villages. A few of the other

cigarette factories also make purchases through their own purchasing organisation which operate in the cigarette tobacco producing areas Some of the cigarette factories also send their buying representatives to the producing area during the marketing season for making purchases. Similar are the practices adopted by at least half a dozen leading bid manufacturers in the Central Provinces and Calcutta. Almost all these leading bid manufacturers are Gujeratis from the Charolar area. They have extensive purchasing organisation in the producing areas, bid tobacco processing factories and big workshops for manufacturing bids either in Gujerat or in the Central Provinces or in Calcutta. The other bids manufacturers make their purchases through commission agents and wholesalers operating in the producing areas.

The eight and cheroot manufacturers generally do not have their own purchasing organisation Occasionally however, they appoint representatives who go in the producing area and make furchases on their behalf during the marketing season Bulk of the cigar and cheroot manufacturers, however, make purchases on the basis of samplies supplied by their respective commission agents and wholealers in the producing areas. The manufacturers of hookah, chewing and smift tobaccos make purchases mostly through or from commission agents and wholesalers.

(4) CO-OPERATIVE SOCIETIES

As has already been explained in the chapter on "Assembling, the quantity of unmanufactured tobacco distributed through or by co operative societies is almost negligible

(5) EXPORTERS.

As discussed in the chapter on "Supply" over 98 per cent of the average annual exports of tobacco and tobacco populous consist of unmanufactured tobacco. Over four fifths of the average annual exports of unmanufactured tobacco occur through the ports of Madras and Bombay Presidences and as such all the leading exporters operate in these two areas. The principal destinations where unmanufactured tobacco is exported are United Kingdom Aden and Dependences and Japan which together account for over three fourths of the annual average exports.

(a) Exports to the United Kingdom—Almost the whole of the unmanifactured tobasec exported to the United Kingdom is from the Guntur area of the Madras Presidency. All the exporters including the Indian Leaf Tobacco Development Company who operate in this area make their purchases direct from the growers and curers So far as the Indian Leaf Tobacco Development Company are concerned distribution of tobacco is a simple matter, as they supply the raw material only to their own manufacturers in India and England Most of the other exporters ship their tobacco packages to their agents in England on consignment basis. Some of these agents are often mere shipping agents and not dealers in LIIOAB. tobacco As such they are not well conversant with the market requirements but usually are more eager for the settlement of their bills. Other agents are professional brokers and leaf merchants

Immediately on arrival in England each tobacco package is sampled by the dock authorities the weight of the sample taken being 4 lb All tobacco packages are held in bonded warehouse until sold by the leaf merchants or brokers. The buyer, 4e, 4b manufacturer then becomes responsible to His Majesty's Customs for the appropriate duty. On payment of this duty by the manufacturer a permit is granted by His Majesty's Customs without which no tobacco is allowed to be stored in the manufacturers premises. The terms and conditions under which tobacco pared can be taken away from the bonded warehouses are laid down by His Majesty a Customs Manufacturers who buy tobacco are responsible for its transport from the warehouse to the factory.

Charges at the bonded warehouse vary slightly at the different yorts and comprise of those for receiving tobacco, sampling and storage for 12 months from the date of import. Such charges are defrayed by the Indian exporter except in the case of an order from a manufacturer on a c i f basis

The usual rate of commission charged by the leaf broker when slightly tobacco on consignment basis is oper cent calculated on the gross invoice value Advances may be made against shipments the security being shipping documents obtained at the time of export from India

It may be stated that the tobacco leaf exported to the United Kingdom on consignment basis is marable purchased by mutual kingdom on consignment basis is marable purchased by amultacturers outside the combine of the Imperal Tobacco Company of Greet Britain and Ireland). Limited These manufacturers usually do not import direct but look to leaf brolers and ingrebastic in England for their supplies of the various grides and type surrespective of the origin. By this means then see from samples submitted from bond what they are going to get. They are not called on to make advances and are not bothered with any disputes and institutions.

As mentioned above the charges for storing tobacco packages in the bonded warehouses appear to be the same for one day as for one year. There is therefore a possibility of a leaf broker in the United Kingdom of raising a loan against the stocks ting in the bonded warehouses though no definite evidence is forthcoming on the point. Some of the Indian exporters from Guntar adout that their receive from their agents in England advances up to about 70 per cent of the value of their exports at 6 per cent interest but allege that the English agents in their turn raise money against the tobacco stocks at a lower rates of interest. They further complain that in the absence of any control over sales of tobacco in the English markets as all sales are done by private treaty they have to depend entirely on what their London agents write to them and that they have no other source to know whether the bonded warehouses.

It is however a fact that apart from the correspondence they have with their English agents, the Guntur exporters have no way knowing the ruling prices of Indian tobaccos in the London and Inverpool markets and in consequence they have to accept what ever the agents offer them It may, however, be stated that the exporters from Guntur send with each consignment their minimum valuation report to their agents in England and that the English agents never sell the goods without their consent if the prices offered are lower than those specified in the valuation report There appears to be however a common feeling in the mind of the Indian exporters that situated as he is in the best position to know the trend of prices, the English agent might sell when the prices are at their maximum and might give something less to the Guntur exporters. The price quotations for Indian tobaccos in the English markets are never rublished nor do the agents in England supply the Guntur exporters counterfoils of the receipts passed by them to buyers (16, manufacturers or their agents) in the United Lingdom In conse quence the Indian exporters feel that they have to accept whatever they receive from their agents in the absence of any other sources to verify the prices actually realised for their consignments

On the other hand there seems to be a feeling among the leaf brokers in England that the average Indian shipper is quite unable to determine what price he is prepared to accept for each shipment sent over for sale on consignment basis and point out cases where the original ast ing price was reduced by as much as 3d per lb to the apparent satisfaction of the shipper. It is obvious that such practices must leave rn uniavourable mipression on the mind of the buver but at the same time the Indian shipper cannot be blamed for lowering or raising the prices in accordance with the market conditions about which he seems to be almost wholly ignorant so far as the sale of Indian tobacco in the United Kingdom market is concerned.

Almost the only cause of this trouble eems to be the absence of any market intelligence with regard to prices of Indian tobaccos. Apart from the efforts that are being made since 1937 by the Cen tral Marketing Staff there are no standardised grades for Indian tobacco exported to the United Kingdom. The grades adopted by the Indian exporters not only vary from one shipper to another but also from month to month with the same shipper. Under the conditions it is impracticable if not impossible to secure and publish information on prices of Indian tobaccos in the United Kingdom In any case the remedy to get out of the difficulties experienced by the Indian shippers lies in their own hands and that is that every shipper should export his leaf only on the basis of standard grades to which a reference has already been given earlier If large quantities of Indian leaf graded according to standards are offered for sale in the United Lingdom markets, it should be quite an easy matter to get and publish price quotations for Indian tobaccos in the same way as is being done with regard to American, Canadian Rhodesian and Nasaland tobaccos

(b) Exports to Japan .- For shipments to Japan no brokers intervene but the trade is extremely uncertain at least so far as

mduidual exporters are concerned Orders for purchase of tobaco from Japan are received only after the national budget for tobaco is passed in that country by about the end of September every year so that the exports can be made only after September The Country (Autia) exparate tobacoc exported from India to Japan becomes ready for the mariet in April and May so that the exporters from cluntur have to purchase leaf from the growers during these montls in the hope of getting orders from Japan in September and October These orders may or may not be repeated from Year to year to the same Indian exporter who therefore considers his business with Japan as 1 matter of chance On account of this cause exporter from Guntur sometimes have large unsold surplus stock which they very often export to the United Kingdom as heavy dark tobacoc This type of tobacoc its Country (Natu) has an extremely limited market in Fingland with the result that the stocks of Indian tobaccos unnecessarily accounted in the English markets

(c) Exports to Aden and Dependencies—These exports consist entirely of both and smoking tobaccos from the Bombay Presidency Almost all the tobacco exported is from the Charotar area of Bombay Gujerat and Baroda State Small quantities of pendis (leaf bundles) from the Nipain area are also exported it is understood that there are over three dozen Gujrati merchants in Aden who are engaged in tobacco businesses and who arrange for the import of tobacco to Adeo on consignment basis. Further distribution of this tobacco to Arabia and other adjoining parts is arranged by these merchants In the majority of cases these Gujrati merchants have their own organisa vious for purchasing tobacco in the Charotar area.

B -Finance of wholesale distribution

There is practically no difference between the method of finance of assembling and of wholesale distribution Banks and shroffs do not play any significant part in financing the distribution of tobacco Some of the smaller cigarette factories occasionally raise loans from joint stock banks against factory buildings and machinery which are usually insured Most of the manufacturers however arrange their own finance Commission agents wholesale merchants and exporters operate almost entirely with their own money Occasionally hey raice loans from banls and shroffs against property gold and jewellery but almost never against tobacco stocks. In the case of wholesale merchants a large part of their tobacco is offered to their clients on credit the period of which may range from 30 to 60 days or more in accordance with their mutual business relations Bulk of the manu facturers of hookah and chewing tobaccos and bidis do not come for ward to buy tobacco from wholesalers unless they are given sufficiently clastic credit facilities

As has already been noted earlier some of the Guntur exporters get advances from their agents in England against their tobacco on signments at about 6 per cent interest. Exporters who do business with Japan and Aden do not appear to get any advance though it is understood that some of the Gungat, merchants doing business in

Aden supply capital to their agents in Bombay for making purchases in the Charotar area

Bulk of the unmanufactured tobacco obtained from the United States of America and the United Kingdom is imported on behalf of the Imperial Tobacco Co of India, Limited The large trade in chewing tobacco imported into Travancore from Jaffina in Ceylon is main tained almost entirely through a system of finance which connects the grower on the one hand and a distributor in Travancore on the The tobacco grower in Jaffna is understood to be invariably financed by the local merchant or chetty (moneylender) Often, the tobacco is first pledged by the cultivator to the local merchant who in turn pledges it to the chefty who charges 18 to 24 per cent interest on the money advanced The chetty stocks the tobacco in his godown and often makes it a condition that it should be shipped to Travan core only in vessels chartered by him Soon after the consignment of tobacco is received and sold in Travancore, the commission agent from Travancore makes an advance payment to the chettu up to the extent of 72 to 90 per cent of the sale price. This advance may amount to as much as Rs 50 000 in the case of an average commis sion agent. To meet this demand he is often forced to horrow from the local banks which usually advance loans on personal security charging interest at 12 per cent per annum. At the end of 42 to 18 months when the commission agent has realised all the sale proceeds of the tobacco the balance due to the chettu is paid after deducting commission godown charges and other expenses incidental to selving

C -- Costs of distribution-the price spread from consumer to producer

(1) UNMANTFACTURED TOBACCO

The principal items of distribution costs are the assembling charges and expenses over sorting grading handling parling and These charges vary in different areas and in accordance with the extent of the distance of transport and the channels through which the produce passes to the consumer When the producers sell direct to manufacturers as in the case of digarette, eigar cheroot and bidi tobaccos the costs of distribution are small and consist entirely of the market charges customary in the locality handling and carting charges from the place of purchase to the buver's godowns and other expenses incurred by the manufacturer incidental to getting the un manufactured tobacco reeds for manufacture. In the case of other manufacturers who buy from wholesalers and stockists the distribu tion costs include handling storage and other charges incurred by the latter In such eases the proportion of the consumer's price that goes to the grower is naturally smaller than when the grower sells his produce direct to the manufacturer When the unmanufactured tobacco is exported abroad the grower's share of the consumer's price is still smaller

The following figures show the average distribution costs in the case of flue cured Virginia leaf (stripped) exported from Gintur to the United Kingdom as worked out from data secured from a number of merchants and growers

Price spread of flue-cured Virginia leaf (stripped) exported from Guntur to the United Kingdom

(Per bale of 250 lb)

	Export by	merchant	Export by	grower
	Amount	Per cent	Amount	Per cent
	Rs A P			}
Amount realised by grower	52 3 6	49 3	PS A P	١
Market charges paid by grower	1116		34 12 0	40 0
Carting expenses		16		
Brokerage in Guntur	- 1	0 "		
Grading expenses	0 10 5	0.0	3 0 0	3 4
Stripping expenses	2 5 2	18	300	3 4
Loss in weight by stripping	280	2 0	2 0 0	' 3
Loss in weight by moisture break	11 14 8 2 15 7	97 49	10 0 0	11 5
Pressing charges	0 4 0			
Package and packing	1 10 5	0 2	3 0 0	3 4
Transport to port (Coconada)	0 10 0 (by canal)	1 3 J 0 5	1 10 0 (by road and	1 9
Forwarding agent a charges	0 6 7		rail)	
Insurance		0 3	0 6 0	0 4
Steamer freight	0 11 11	0.6	1	
Cable charges	6 6 10	5 2	6 4 0	7 2
Landing rent interest and other contingent charges at destination	0 3 0	8 5	17 0 0	19 5
Brokerage in United Kingdom	5 3 0			
Fare	B 3 0	4 2	4 5 0	5 0
derchant s (Exporter s) margin	19 10 8	16 0	1 11 0	, 0
Price realised in United Kingdom	123 5 0	100 0	87 0 0	100 00

Thus when the flue-cured leaf is exported by a Guntur exporter, the grower for his leaf, on an average gets 423 per cent of the price

realised in the United Kingdom markets for the stripped leaf while the exporter makes a margin of 16 per cent which include his over head exponese estimated at about Rs o per bale of 200 fb. The balance 122, 417 per cent represents loss in moisture stripping, charges on grading packing transport insurance landing expenses rent brokerage et. When the grower himself exports he gets for his stripped leaf as his net return only about 40 per cent of the price realised in England the balance representing expenses on items specified above. Tobacco intended for export to England requires special skill and equipment in preparation redrying grading and packing and small growers can ill afford to have such facilities. Exports made by growers themselves therefore compare unfavour abbit in quality with those made by professional and expert expor eight in the English market.

On the country (Vatu) tobacco exported to the United Kingdom and Japan the grower's share of the consumer s price is smaller as can be seen from the following features:

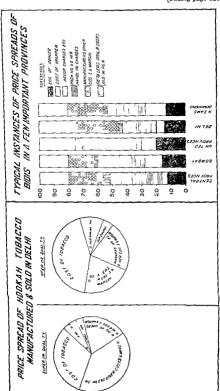
Price spread of country (Natu) exported by merchants from Guntur to the United Engagem and Image

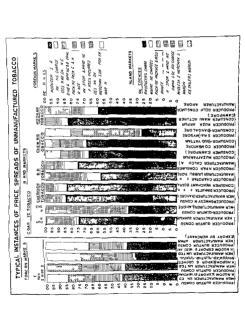
(Per		-		0 lb)	u,,					
	E	r por	rt to	UK	Export to Japan					
	Amount		Per cent	Amo	unt	Per cent				
	Rs		P		Rs	A P				
Amount realised by grower	∘6	ĭ	0	31 4	18	14 8	3-8			
Market charges pa d by grower	1	a	0	16	0	15 4	20			
Carting expenses	0	4	0	0.3	0	4 0	0 5			
Brokerage in Guntur	0	8	0	0.6	0	8 0	10			
Grading expenses	2	8	0	30	2	0 0	40			
Stripping expenses for removal of stalks and stems	2	0	0	* 4	2	0 0	40			
Loss in weight by removal of stems and stalks	2	19	0	3 3	2	0 0	4 0			
Loss in weight by moisture etc	2	12	0	3 3	2	0 0	4.0			
Pressing charges	6	4	0	6.3	0	4 6	0.5			
Dackage and packing charges	0	12	0	0.9	0.1	2 0	15			
Transport to port (Coronada) by canal	0	10	0	07	0:	0 0	12			

	E	x po	rt t	o l k	Export to Japan.					
	4m	oun	t	Per cent	Amo	ount	Per cent			
Forwarding apont s charges	Rs 0	6		0 4	Rs	A P	-			
In-urance	0	s	0	0.6			ĺ			
Steamer fre aht	6	4	0	- 5	3	0 0	60			
Cable charres	9	3	6	0,		3 0	0.4			
Landing ren intere t and o her contingent harge at de tinat on	10	3	0	r.	Ů					
Brokera, e at de tina on	4		0	4.9						
Exporter s maroin	,	0	v	26 4	16	9 0	33 I			
Prierealised at d tmat on	83		0	100 0		0 0	170 0			

It is therefore evident that of the price realised for country (Adta) tobacco in the United Kingdom the grower gets 314 per c.n., while the exporter makes a nargin of 264 per cent. The correspond in figures for exports to Japan are 3.45 per cent as the grower's share and 33 1 per cent as the margin made by the exporter from the price realised in Japan. The overhead expenses of the exporter are estimated at about Rs o per bale which he meets from the margin he

Market tharps, paid by the grower Market charges paid by the grower Market charges pa d by the buyer Package and packing expenses Poad tran.port to Pethad Pailway station Raulway freight to Bombay	all	ex]	of a c ported Barodo	on 12n I by a I) to
Price spread of bids tobacco exported from Petli Aden (Per standard manud) Amount realised by the grower Market charges pad by the grower Market charges pad by the buyer Package and packing expenses Poad transport to Pethad Palway station Raulway freight to Bombar	s ,	. 1	P Pe	r cent.
Amount realised by the grower Market charges pad by the grower Market charges pad by the buyer Package and package expense Posd transport to Pethod Padiway station Railway freight to Bombay	11		0 .	
Market tharps, paid by the grower Market charges paid by the grower Market charges pa d by the buyer Package and packing expenses Poad tran.port to Pethad Pailway station Raulway freight to Bombay	11		0 .	
Market charges pad by the grower Market charges pad by the buyer Package and packing expenses Poad transport to Petlad Pathway station Railway freght to Bombay	t			
Market charges pa d by the buyer Package and packing expenses Poad transport to Pethad Pailway station Railway freight to Bombay		5 6		9 4
Fackage and packing expenses Poad transport to Petlad Pailway station Railway freight to Bombay			0 1	0 1
Poad transport to Petlad Pailway station Railway freight to Bombay) 3	1	ı	1 a
Ranway freight to Bombay	6	. 8	3	3 2
and at Height to Bombay) 1	-)	0.5
Talana data	. 4	0	•	97
Taking delivery transporting to and atranging in the ware house	9	-	•	1 *
Tightening the ropes of the bales, etc 0	1	4		6
Warehouse rent insurance etc 0		5		7
Transport from the warehouse to the port 0	•	0		ò
Port trurt charges in Bombay 0	4	9		3
Steamer freight to Aden 0	la	2		4
Marine insurance charges	1	ō		5
Miscellaneous charges incidental to handling and transport to merchant a warehouse at Aden.	4	ŏ		9
Total 19	lə	1	100	0





The tobacco was purchased on behalf of a Gujratt merchant from Aden and the price at which the Aden merchant sold the tobacco is not known. But taling into consideration the expenses mourred by the merchant meidental to storage, etc., before sale, it is understood that on an average the grower hardly gets more than 50 per cent or the price realised for his tobacco at Aden.

So far as the internal distribution of unmanufactured tobacco is concerned, the spread of price between the consumer and produces in different areas is summarised in Appendix LXVI and illustrated in the diagram facing this page. The main factors that determine the proportion of the consumer's price that goes to the producers are the market value of the type of tobacco, the distance over which the produce is transported and the number of times the commodity changes hands before it reaches the consumer or manufacturer Thus. while on country (Aatu) eigarette tobacco sold to a Sukkur manufacturer, the Guntur producer gets almost 75 per cent of the consumer's price, he gets hardly 37 per cent of the price paid by a Lahore manu facturer on the cheap scraps and rejections of cigarette tobacco. With the same type and quality of tobacco, the largest single variable factor in the distribution costs is the railway freight, which depends not only on the distance over which the commodity travels but also on the specially reduced freight rate that may exist between any two points In the case of Bangalore, however, the octror and terminal charges account for almost 40 per cent of the price paid by a con sumer of chewing tobacco as against a little over 26 per cent obtained by the producer (see Appendix LXVI) Similar is the case in a few other towns like Bombay where the rates of terminal and octroi charges (discussed in the next chapter) are high. In Bombay Rs 30 charged for every maund of tobacco that enters the town of Bomoay Thus, while the Charotar grower gets only Rs 10 to Rs 13 for a maund of his bidi tobacco, Rs 30 have to be paid as town duty immediately the same maund of tobacco enters Bombay City

It may be seen from the figures of a few typical cases given in Appendix LNVI that the producer's share of the consumer's price ranges from 26 5 to 84 3 per cent leaving the case of Burma out of consideration. It is, however, assumed in all these cases that the producer sells direct to consumers. The quantity of tobacco sold of producers in regular markets is estimated at not more than 10 per cent of the total production in Ludio and it has also been made clararily for the total production in Ludio and it has also been made clararily in the total production in Ludio and it has also been made clararily in the total production in Ludio and it has also been made clararily said local warehousemen intervene and in such cases the share of the consumer's price received by the producer would be lower than that shown in the representative instances given in Appendix LXVII After making an allowance for this factor it may be very roughly reckoned that on an average the grower's share of the price pand by the consumer cannot be much more than about 60 per cent

The one case given for Burma in the Appendix LXVI shows that the producer's share of the consumer's price is 85 per cent. This, however, takes no account of the complicated financial arrangements catered into by most of the tobacco growers in Burma with the logic mone-lenders brokers merchants and manufacturers (see Chapter V—Assembling) Taking into account the heavy rates of interest charged for the advances taken by the grower and the restriction on his freedom in the matter of the disposal of the crop as a condition of the loan the share of the consumers price that goes to Buimese tobacco producer is also roughly estimated at not more than 60 per cent

(2) Tobacco Products

As explained in the next chapter excepting in the case of cigarette factories and one or two cigar manufacturers the manufacturer is the manufacturer of tobacco products is not a standardised occupation for which factor; costings, ire usually kept nor one about which in formation is given at all freely. The complicated nature of manufacture particularly of eigarettes discussed in the next chapter would made any estimate of manufacturing and distributing cost highly conjectural. It is therefore advisable to restrict discussion in this section only to such tobacco products like bids hookah and cheving tobicos and snuff where the process of manufacture is much simple and for which fairly accurriet and representative estimates can be made with the help of information secured from manufacturers.

(a) Bidis —The following figures show the manufacturing and distribution costs per 10 000 bidis of medium size manufactured at Delhi —

Total cost Per cent

Rs A P

(a) Tobacco & secre made up of—

3 secre of Duling rown tobacco at Rs 4 per maund of 4s secre to Duling rown tobacco at Rs 4 per maund of 4s secre to the tobacco according to the tobacco according

Wrapper leaf 10 seers at Rs 4 per maund Cost Re I 0 0 Thread Re 0.5 0

Inread Re 05(

Man facturer-

(1) Raw materials-

(4) Selling price at Rs 1 4 0 per 1 000 bidis 12 8 0

Retailer—

(5) Retailer s marign 6

(5) Retailer s marign 6 4 0 33 3 (6) Retailer s price at 9 pres per 2π bidis charged to consu 18 12 0 100) mariers

mer

Similar enquiries indicate the following as the manufacturing and distributing costs in important areas

Average manufacturing and distributing costs of bidis (Per 1000 bidis)

(Figures in brackets represent percentages)

_	Central Pro vinces	Bombay	ιP	Delhı	Vizam s Do minions
Cost of tobacco	0 6	040	Ps A P 0 4 0 (70 0)	. 0 4 3	0 9 7
Cost of wrapper	0 0 9	0 3 0	0 0 0 (10 0)	0 1 ~	0 0 10
Labour charges etc	(30 0)	0 8 0	0 0 (3a 0)	0 - 0 (73 3)	0 a 2 (°a 8)
Packing and other handling charges	0 0 11	0 0 6	0 1 0 (5 0)	0 0 8	0 0 8 (3 3)
Manufacturers other costs and margin	0 4 10	0 4 6 (18 0)	0 1 0 (5 0)	0 8 6 (28 3)	0 4 9 (23 7)
Retailers other costs and margin	0 4 0	0 5 0 (20 0)	0 5 0 (25 0)	0 8 0 (26 7)	
Consumer s price	1 4 0 (100 0)	1 9 0	1 4 0 (100 0)	1 14 0 (100 0)	1 4 0 (100 0)
	,		1	1	

Thus it is seen from the above statement and the diagram facing page 310 that the manufacturer makes a margin of 5 to 28 3 per cent of the consumer's price while the retailer gets from 20 to 26 7 per cent. The cost of tobacco ranges from 12 5 to 20 per cent of wrapper leaf from 3 8 to 14 2 per cent of labour 23 3 to 30 per cent while the cost of thread labelling packing etc varies from 2 to 5 per cent of the consumer's price. The cost of labour forms the biggest single item.

⁽b) Hookah tobacco —Enquiries made in Delhi show the following as the average costs of manufacturing and distributing superior and inferior qualities of hookah tobacco (See diagram facing page 310)

Details of ma infacturing and distributing costs of superior quality

hookah tobacco manufactured in	Delh	1.		
Details	Tota	al ca	ost P.	Per cent.
Manufacturer-				
(1) Paw matervals—				
Tobacco				-
I maund (4) seers) Farrukhabad tobacco at Ps 10				
per maund Cost Rs 10 0 0 2 seers of Kampilla tobacco at Rs 15 per maund of 45				
seers Cost Pe 0 10 8				
lo seers of Bombay tobacco dust at Ra 6 per maund of				
42 seers Cost Ps 200				
Powdering and sieving at 6 annas per maund (45				
seers) Cost Re 0 8 3 Total cost of tobacco	13	,	11	31 5
Other raw materials—	10	-	••	
Molasses 11 maunds at Ps 1 12 0 per maund Earth*				
Re 007	_		_	6.3
Total cost of other raw materials (2) Labour charges at 6 annas per maund of 42 seers (piece	2	10	7	ь >
work)	- 1	6	0	3 2
(3) Man sfacturer s other costs and margin		14	6	19 0
(4) Selling price of 1347 seers of hookan tobacco at Rs				
7 8 0 per maund	25	2	0	
Petaster-				
(5) Petailer a margin	16	12	0	40 0
		_		-
(6) Retailer s price at a annas per seer	41	14	0	100 0
Details of manufacturing and distributing cos	ts of	27	fer	sor quality
hoorah tobacco manufactured in j	Delh	ŧ		
Details	Total	cos	t	Per cent
Manufacturer-	R_8	£.	Y	
(1) Paw malervals— Tobacco—				
I mound of 45 seers of imported raw hookah tobacco				
at Ps 10 per maund Cost Rs 10 0 0				
15 seers of Delhi grown tobacco at Ps 5 per maund				
of 45 seers Cost Rs I 10 8 10 seers of Bombay tobacco dust at Ps 6 per maund				
of 45 seers Cost Ps 2				
Powdering and sieving at Re 060 per maund of 45				
seers Cost Pe 0 10 0				
Total cost of tobacco Other raw materials—	14	4	8	43 5
75 seers of molasses at Rs I 12 0 per maund Cost				
Ps 346				
Earth: Pe 0 1 3		_	_	
Total cost of other raw materials (2) Labour charges at 6 annas per maund of 45 seers	3	5	9	10 2
	1	7	4	4 4
(piece work) (3) Manufact irer sother costs and margin	14	7 15	3	15 2
(prece work)	1 4 24			

The total quantity of tobacco used comes to 62 seers To this is usually added about 20 per cent of earth. Thus about 12 seers of earth is added. This costs about 2 annas per maund for labour † The total quantity of hober's tobacco comes to 134 seers made up of 62 seers of b) acco 12 seers of earth and 60 seers of molasses

t Earth equal to about one third of the weight of tobacco is added Consisting 75 seers of tobacco 75 seers of molasses and 25 seers of earth

Details of manufacturing and distributing costs of inferior quality hookah tobacco manufactured in Delhi-contd

Details	Total cost Per cent	Per cent			
	Rs a P				
Retailer-					
(5) Relailer s margin	8 12 0 26 7				
(6) Retailer s price at 3 annas per seer	32 13 0 100 0				

The average manufacturing and distributing costs in the important hookah smoking areas are given in the following state ment —

Average manufacturing and distributing costs of hookah tobacco

(Per maund of manufactured hoolah tobacco)

(Figures in brackets represent percentages)

_	Punjab	Della.	UP	Bengal.
Cost of tobacco	Rs A P 2 10 7	Rs a P	Rs A F	Rs A P
Other raw materials and ingre- dients	(53 2) 0 11 3 (14 1)	(36 0) 0 12 6 (7 8)	(37 5) 2 5 5 (26 9)	(37 5) 1 12 0 (17 5)
Labour charges, etc	0 3 1 (3 8)	0 6 0 (3 8)	0 2 7	1 0 0 (10 0)
Manufacturers other costs and margin	1 7 1 (28 9)	1 15 6 (19 7)	1 3 2 (13 8)	1 8 G (15 O)
Retailers other costs and margin.) (20 3)	3 4 4 (32 7)	1 11 10 (20 0)	2 0 0 (20 0)
Consumer s price	5 0 0 (100 0)	10 0 0 (100 0)	8 11 2 (100 0)	10 0 0 (100 0)

The cost of tobacco thus ranges from 86 to 53 2 per cent of the consumer's price while that of other raw materials like molasses etc, varies from 7 8 to 26 9 per cent. Labour charges form the smallest item of cost accounting from 1 8 to 10 per cent of the consumer's price while margin made by the manufacturer varies between 13 6 to 19 7 per cent. In the Punjah, the manufacturer who himself does the retailing makes a margin of 28 9 per cent of the consumer's price. The margin made by the retailer in Delhi, the United Provinces and Benral is higher than that obtained by the manufacturer and ranges from 20 to 32 7 per cent.

(c) Chewing tobacco—The figures give average manufacturing and distribution co- tobacco manufactured in the United Province		e the ewing	
	Per maund of manufac Per cured chewing tobacco	c Per cent	
Cost of tobacco	Rs A P		
	18 0 0	36 0	
Cost of other raw materials and ingredients	2 10 0	5 3	
Labour charges etc	1 8 0	3 0	

Packing and handling charges

Manufacturer s other costs and margin

Retailer s other costs and margin

Consumer a price

the following figures of costs and realisations -

(d) Snuff -A snuff manufacturer from Kolhapur has given

Cost of tobacco

Cost of other raw materials and labour Manufacturer s other costs and margin

Retailer s other costs and margin

Consumer a price

Perseer of snuff Ps A P

1

0 11

2 8 0

13 2 0

12 8 0

50 0 O

Per cent 0 8 5

100 0



4 5

26 2

25 0

100 0

Wholesale distribution of unmanufactured tobacco

INTER CHAPTER NINE

It is difficult to make a general statement applic able to the whole country about the proportion of the consumer's price obtained by the producer of the different types of tobacco About four fifths of the tobacco crop is sold by the producers in their own villages to merchants, manufacturers and warehousemen In such sales the distribution costs consist entirely of the market charges customary in the locality and the producer gets 99 per cent of the buyer's price in the North Bihar area, 94 to 96 5 per cent in the North Bengal and Guntui areas and 85 5 per cent in the Charotar area. When sold in markets in the producing areas, the producer gets 89 5 cent of the buyer's price in the Nipam area and 94 5 to 96 5 per cent in the North Bihai and Guntur areas The bulk of these sales are, however, made to merchants and warehousemen who form a fairly long chain between the producers and consumers or manufacturers and the share of the consumer's price received by the producer becomes much lower After making allowance for this factor and transport and other charges it may be the consumer or manufacturer is not much more than 60 per cent or 10 annas in the rupee

On an average of the prices realised for Virginia flow (uned tobacco (stripped) in the United Kringdom markets the grower from Guntur gets about 423 per cent fo his leaf while the exporter's margin amounts to 16 per cent. The balance 112 417 per cent. represents loss in moisture stripping, charges on grading, packing transport, insurance, landing charges, respectively.

himself exports he gets for his stripped leaf as his net return only 40 per cent of the price realised in England, the bilance representing expenses on items specified above. Tobacco intended for export requires special still and equipment in preparation, redrying, grading and preking. Small growers can ill afford such facilities and would be well advised to desist from exporting their tobacco direct for sale on consignment basis at any price it will fetch. On the country (Natu) tobacco exported to the U.K., the grower gets 31.4 per cent as his share of the price realised in England, while the exporting merchant's margin amounts to 26.4 per cent. The grower's share of the price realised in Aden for lookaco is about 37.8 per cent as against the exporter's margin of 33.1 per cent. The Indian grower gets hardly 50 per cent of the price realised in Aden for his tobacco.

One important reason for the high distribution costs is the frequent sorting and resorting of the un manufactured tobacco almost at every stage to suit the requirements of different merchants and minufacturers. It should be possible to economise in this respect by adopting standards in regard to quality, moisture contents and packing. The marketing expenses are high particularly in the Charotar and Nipam areas and some action is urgently required for their regulation.

Commission agents and wholesalers form the most important link in the chain of distribution, and assemble and distribute about four fifths of the total annual production. Purchases are also made directly from villages by agents of the big manufacturers and of most of the leading exporters who operate at Guntur and Bombay.

There is a feeling in the mind of some particularly of the smaller exporters that they do not get correct prices for their leaf from their agents in the United Kingdom This arises from the fact that they have no source with which they can compare the prices obtained from their agents. In the absence of standard grades, there is no market intelligence with regard to Indian tobaccos in United Kingdom markets, which would make it possible to compare prices. If large quantities of Indian leaf graded according to standards are offered for sale in the United Kingdom and other markets, it should be possible to secure and publish price quotations for Indian graded tobaccos in such a way that exporters could exercise better judgment as to the proper time and place to dispose of their consignments.

CHAPTER X — MANUFACTURE AND DISTRIBUTION OF TOBACCO PRODUCTS

Apart from the eigerette factories and one or two manufactures of eigars lie the Speneer's munufacture of tobacco is essentially a local industry. It is not a standardised occupation for which factory costings are usually lept nor one about which information is given at all treels to an enquiry. Even in the case of eigarette and eigar factories the only dependable information available is that collected under the Indiun Factories (at and this consist of names and location of fuctories persons employed accidents of careful and eigar factories are not very willing to part with any information almost on any aspect of the midstry and minufacturers of other to lice oppodures also are not quit willing to just with information of their trade. Any information given here therefore must be read with these reminists in minformation.

A -Manufacture of tobacco products

(1) CIGARETTES

(a) Extent and location—During the veri 133 the latest year for which information is available if tere were 22 cigarette factorise from which information is available if tere were 22 cigarette factorise 5000 persons daily. Four of these factories belonged to the Cigarette Manufacturers (India) Lid and the Tobacco Manufacturers (India) Lid and the Tobacco Manufacturers (India) Lid analysis on an average about 4600 persons daily while the remaining 1s were other factories to employ about 3400 persons per day. To indicate the development of vigarette main freture in India it may be stated that in 1923 there were only 11 factories employing on an average about 5000 persons daily while in 1929 there were 9 factories employing on an average about 7200 persons per day. In 1933 the number of factories increased to 24 with a daily labour force of 7000.

The Indian Leaf Tobacco Development Company purchases over half of the cugrette leaf produced in India for export and for sale to the Tobacco Manufacturers (India) Limited and the Cigarette Manufacturers (India) Limited who own three factories and one factory respectively and are responsible for three fourths of the output of cigarettes in India The factories are located at Banga lore Sabaranpur Monghyr and Calcutta

The Imperial Tobacco Company of India Ltd acts as a selling organisation for handling the products of the companies referred to above and including imported goods probably I andles somewhere like 75 per cent of the total trade of eigarette in India

The Indian factories are located in Bombay Sukkui Jullundur Lahore Allahabid Calcutta Hiderabad (Decean) and Baroda The more important Indian factories are those at Calcutta Bombay Sukkur and Hyderabad (Decean), at least so far as the volume of production is concerned. There are two small factories catering for local demand at Gwalior and Bezwada A manufacturing concern from England is contemplat ing to organise a big eigarcite factory at Bombay

Between 22 to 23 million ib of tobaceo leaf is annually used by all the eigarette factories. Of this quantity about 15 per cent is foreign leaf imported almost entirely from the United States and the United Kingdom. The annual production of eigarettes in India is estimated at about 7:00 million eigarettes valued at nearly six crores of rupees. Almost three fourths of the production consist of cheaper brands of eigarettes. The production of medium quality cigarettes is estimated at about 20 per cent while that of the high grade eigarettes at about 5 per cent of the total annual production.

- (b) Vanufacture—The manufacture of eigarettes is an extinemel elaborate and complex affair. On arrival at the factors the tobacco leaf is semi ed from its containers and then further graded and blended. Each brand is made up of definite proportions of different grades or types of tobacco in order to produce a product of definite quality and to maintain a specified standard of quality. The several grades or types are carefully brought together or blended in proper proportions on the floor of the mixing room Selection and blending of leaf is one of the most important operations in the manufacture of eigarettes and the blender is often the most important person in all eigarette factores.
 - A few manufacturers spray the tobacco leaf with "flavour mes" which are made from very seret recepts particularly in the case of cheaper brands of eigarettes. Various concoctions of gliverine, glucese, molasses and essential oils are used. In order to maintain the moisture in tobacco and to improve the flavour many manufacturers use giveerine and di ethylene glycol. It may be stational that in the United Kingdom the use of glycerine and di ethylene glycol is considered illegal in the manufacture of tobacco products in the use of essential oils for the purpose of flavouring of any tobacco products and olive oil and sweetening matter in the case of smoking tobaccos is permissible. The addition of solid matters is prohibited for home consumption but permissible in goods manufactured for export.

After the leaf is selected the tobacco is taken to the steaming or conditioning room where it is passed through a series of chambers permeated with moistine which renders the leaf soft and phinble and fit for handling. Afterwards the midrib of the leaf is removed if this has not already been done before the leaf reaches the factory. The stripped or steamed leaf is then built into heaps and allowed to case 'or institute which is considered to sweeten and mellow the tobucco. It this point the leaf is considered ready for manufacture and taken to the cutting room where it is cut into fine shreeds by the cutting machines. The cut tobacco is then passed through a machine consisting of large revolving chindres which are le ted

This has the effect of loosening the cut tobacco and making it high and fluffy. Afterwards it is passed into reading drums through which cold arm is circulated and over a series of sierces where particles of dust or stem are extracted. The cut tobacco is the taken to the storage room where it cols and mutures for about two days after which it is considered ready for manufacture into creametres.

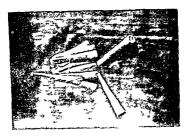
The eigarette milling muchine is a fast running machine and great care is necessary to ensure that all the eigarette, that are put through are well filled and that the eigarette priper is properly printed as the printing is done by the same machine which makes the eigarettes. The malling of eigarettes is a skilled work and an operator has to receive a considerable, amount of training before he is able to make satisfactors eigarettes as there are several points that have to be writhed

The cut tobacco is fed into large hoppers at the back of the eigarette mechine. From here it is drawn over a wide shule in fast recoting rollers. At the bottom of the shute in a narrow trough runs the eigarette paper in an endless stream. Before reaching the trough the paper is printed by a printing presentation to the machine with the name of the brand on each eigarette length. In the case of each tipped eigarettes the paper passes through a corl tipping apparatus where the tips are securely fastened to the paper in the required position. The tobacco from the shute falls over the swiftly moving eigarette paper one edge of which is falls over the swiftly moving eigarette paper one edge of which is the paper is then automatically sealed. The organization of the paper is then automatically sealed. The eigarette has made is endless and a fast revolving circular kinte cuts it required lengths. The eigarettes are then examined and their weight rested.

Atterwards the eigarettes are put into trays and allowed to condition for a specified time in a special room. They are that padel in cartons of tens or in vacuum tins of 50 eigarettes. Most of the bigger eigarette factories possess packing machines which pade eigarettes in eartons at the same time placing the in fol around the eigarettes. The eartons then go to another machine which wrap, the in glacule or mosture proof and transparent paper which also enables the consumer to be sure that the eigarettes have no many was been supported with after they left the junnificative.

(2) CIGARS

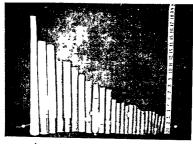
(a) Exient and location—The cigar differs from the cherost only in shape being truncated at both ends. As has already been indicated earlier in the first two chapters the trade and hence the volume of manufacture of cigars is continuously on the decline. About half a milhon lb of tobrece is used in the manufacture of cigars annually and the number of cigars manufactured at present is estimated at about 30 millions valued at about 15 laks of rupes for annum. Cigars are manufactured almost entirely in the Madra-



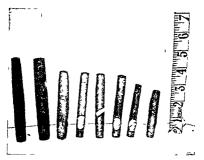
Ві



A b_{ai} making worshop with the vorke a_i but b_i making b_i d_i . The shop also retails b_i d_i and other tobacco products as well as matches betel nuts etc.



An assortment of Burmese mild cheroots,



An assortment of Burmese strong cheroots.

Presidency where there are about a dozen and a half large factories. Trichinopoly is an important centre of production and has about a dozen factories. The well known Spencer's eigars are manufactured at Dindigul, while in Madras city there is another factory where superior eigars, chiefly meant for export, are manufactured Coconada has two factories, but their output is small. The largest cigar factory in the country is that of the Spencer's at Dindigul employing on an average a little over 250 persons per day. Other factories employ from 50 to 100 hands each per day, but work is stopped or reduced during the winter months. Besides the larger eigar manufacturing factories, some of the cheroot factories also manufacture eigars on a small scale.

(b) Manufacture—As compared with the manufacture of cigarettes, the making of cigars as well as cheroots is much simpler and can be done without any elaborate machinery and all by hand. After the tobacco bundles are received in the factory, they are slightly moistened by spraying water on them to facilitate handling without breakage. The leaf is then sorted out into filler, wrapper and builder, which constitute the three parts of a cigar, as well as of a cheroot. The filler tobacco forms the central core of the cigar while the bunder binds the filler and holds it into shape. The wrapper leaf is wrapped on the outside of the cigar and indicates the quality of the cigar, so far as the external appearance is concerned.

The filler leaf is then again moistened and stripped by taking off the midrib The larger manufacturers do not recommend flavouring of tobacco, but some of the smaller factories use essential oils for flavouring The stripped leaves are then dried and kept in store for use They are then further sorted into longer leaves useful for wrappers and smaller ones for fillers. The fillers are used mainly of Trichinopoly origin and occasionally also from Guntur. The wrapper leaf which is usually imported from abroad, should be thin, soft, pliable and entirely devoid of bitter taste. The filler leaves are then rolled into small cylinders over which the binders are fied The rough eigars thus rolled are afterwards kept in a press for some time until well set Superior wrapper which is kept ready in a rolled form is then applied on in moist condition over the rough eigar, starting at the lighting end and finishing at the other end by fastening the edges of the wrapper with a paste. After this, they are packed in thin wooden cases to contain 25, 50 or 100 cigars few manufacturers stifle the eigars for some time by keeping them at a temperature of 150° to 160° in a steam chamber before packing to keep them free from insect attack

(3) CHEROOTS

(a) Extent and location -- The manufacture of cheroots is confined almost entirely to the Madras Presidency and Burma

The average annual output of cheroots in India is estimated at 20 to 92 million lbs or about 18 500 million cheroots, valued at over

9 crores of rupees Cheroot making is practised as a cottage industry practically all over the Madras Presidency, parts of Mysore and Nizam s Dominions Trichinopoly is the largest manufacturing centre and in Woriur a suburb of Trichinopoly, practically every other house is a centre for manufacturing cheroots and even eigars

In Burma too cheroot rolling is essentially a small local industry women who are rollers with some degree of skill being found in almost all towns and in most of the tobacco producing villages Unlike India the work is always done and the business managed by women On an average about a thousand million strong cheroots using about 24 million the of tobacco are unually manufactured in Burma. The average annual output of mild or torch cheroots is little over 6 000 million cheroots for which about 58 million lb of tobacco is used. The total value of the cheroots manufactured in Burma is estimated at 8.7 crores of ruppees.

(b) Manufacture—The method of manufacturing cheroots is similar to that followed in the mail ing of eigars. In the case of cheroots also there are three parts viz filler binder and wrapper but for wrapper leaf of fine and phable texture is preferred. No imported leaf is generally used in the manufacture of cheroots.

(1) Vadras—In the Midras Presulence large thin and darlouved leaves are preferred for wrappers Tobacco from Kistna Lankas is used for such purposes at Madura in addition to local tobacco. The treatment of fillers is different. Some manufacturers as at Cannaore perform a sort of forced sweating on the sorted leaf by immersing it in treacle water for a few minutes and allowing it he overnight. When sufficiently dry the leaves are stripped scattered on the floor and dried. The wrapper leaf is then kept in most condition and used for rolling on to the cut filler leaf. After the cheroot is rolled it is cut at the smoking end. Packing and transport is now almost immediately after drying Although cheroots are considered to improve in smoking quality on storage the manufacturers usually allow for this only during transit. The filler leaf is got from Guntur in addition to local supplies froi Endigular dear the supplied and the supplied from the control of the c

(1) Bitmas—The Burmese cheroots are of two kinds the strong cheroot or his byin leik made entirely of tobacco which is smoked by Europeans and by certain lower Burma town dwellers and the mild cheroot with its wrapper of maize hipst or thanat hipst filled with mixture of chopped tobacco stalks and leaf which is the general smoke of the Burmese people (see plate tacing page 323). When the wrapper used is the sheath of the mize cob it is called his baw leik and when the wrapper is sheath of the mize cob it is called his baw leik and when the wrapper is the prepared leaf of thanat him (cordia spp) thanat hipst leik or shan hipst leik the latter name having reference to the Shan States whence the hipst or wrapper is obtained.

Between the has bou lesk and the shan hpel lest there is no difference in flavour, but the shan-hpet or thand hpet covering, by reason of its more finished appearance and more even burn is preferred by the townsmen whilst the rural population content themselves with the less showy and more firy wrapper made from the sheath of maize-cob. In certain areas use as a wrapper is made of the sheath which envelopes the leaf base of the 'kun bin (area nut palm tree). The mild cheroot in this case is called akun hpel leit.

In the strong eheroots only ehee or shade cured tobaccs such as is produced in the Kama and Shwegyin areas is used. The cheroot like the cigar is made up of three components the wrapper (ta-bet or a-tah) and the filler (c-sa) Of these the wrapper is selected on account of its appear ance and elasticity and the filler for the flavour which it imparts In theory at any rate they should be represented by entirely inferent types of tobacco. In actual practice one variety is generally made to serve all the three purposes with possibly a small admixture of other varieties to the filler to give a desired flavour.

The rolling of strong eheroots is seldom carried on by a single worker alone the usual practice being for a skilled worker to be assisted by one moderately skilled and by an apprentice. The apprentice seldom does any rolling her work being the preliminary occupations of casing and stripping shaping the virappers and drving winnowing and sieing the filter. In this she may from time to time be assisted by the roller of medium skill. The most silled worker devotes her time to rolling only. The output of a combination of three persons thus employed is therefore represented by the rolling of the two and on a daily average works out at about 600 large sized 800 of medium sized and 1000 small cheroots.

The work of rolling is generally given on contract the usual rate being 4 amas per hundred for the large sized cheroots 3 annas for the medium and Re 0 2 6 for the small

In the course of rolling it has become customary with some manufactures to spraw the filler tobacco overnight with flavour ings made up from very zeriously guarded recipes in which brands are ye (fermented liquor from the palmyra palm) vanilla essences sweetened water etc are commonly included. Despite these flavourings however very definite preferences exist for the tobaccus of different areas. The Lanka tobacco from Shwegyin for example is more highly esteemed for cheroot making than the Havana type grown in Thavetimio district.

In the manufacture of mild cheroots the chopped tobacco stalks are first treated with a solution of selt pargery and turning hulp and then dried in the san after which the mixture i roaxiel in large open pans to bring out the flavour. When this is cooled dired tobacco leaf brole in mice small piece i mixed with it in the proportion of three parts of chopped stall to one part of tobacco leaf. Weanwhile a number of mouth pieces made from the sheath of maize cob are rolled and these serve as filters. A number of these mouth pieces together with a basket of the prepared filler mixture and a

heap of wrapper leaves are taken by each roller, each of whom performs all the operations in connection with rolling. The wrapper leaf is shaped and laid flat on a table. A mouth piece and a core of filler mixture are arranged on it and with a deft movement of fingers and thimb the wrapper is rolled round these and tied with a piece of cotton thread. Into the cylinder so made more filler tobaccomay be put in. The paeling is then formed with a thrust from the finger or a small stoke and the top of the wrapper turned in

Apprenticeship in this work is served in rolling the smallest shan hote leaf. (of about a pencil size) till the apprentice reaches the final stage when she can roll standard class of cheroots about 8 to 9 inches long and 1 to 11 inches in diameter. The rates of wages for rolling mild cheroots range from 1½ to 3 annas per 100 according to size. A worker can roll from 200 to 400 cheroots per day

(4) Bidis

(a) Extent and location - The making of the bids (the indigenous eigarette) is an industry widely spread over the country It is partly carried on in the home but mainly in the workshops in the bigger cities and towns Every type of building is used but small workshops preponderate There is practically no area in India where bidis are not manufactured to a smaller or greater extent Over 75 000 million bids are annually manufac tured in India using about 70 million lb of tobacco. The total value of the manufacture is estimated at 7 5 crores of rupees Almost one fourth of the total number of bidis manufactured in the country is made in the Central Provinces Madras and Bombay together account for about 40 per cent of the total their individual share being almost equal Tiese three provinces together contribute nearly two thirds of the bidis manufactured in the country Other areas of importance where bids are manufactured on a fairly large scale are the Mysore State and the Nizam's Dominions which together manufacture over 11 000 million bidis annually. Bidis are manu factured in appreciable quantities in many big towns of the United Provinces Bihar and Bengal Delhi is an important bidi manufac turing centre in the north where about 41 million bidis are annually manufactured

In the Madras Presidency Madras city is the most important bold manufacturing centre where about ten to twelve thousand persons and respected to be engaged in bold making every day. There are a few manufacturers in the city employing from two to three thousand persons per day. North Arcot is another important centre for bold making in the Presidency, with about 70 workshops a few of which employ up to 3 000 persons per day half of whom are children. There are several other towns manufacturing bolds and the total number of persons employed in b di making in the Presidency is estimated at over 30 000 per day though the trade generally does not provide work throughout the year.

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bil the Bombar Presidency practically all important towns are bil making centres. Sinnar in the Nasik district is reported to be the most important centre for bild manufacture where about 2 000 persons work every day on bild making. Poona is the next important centre and bild manufacturers claim that the pioneers of the bild making industry in the Central Provinces got their first lessons in Poona.

From the point of view of inter provincial trade the bidis manu factured in the Central Provinces are the most important. Of the total number of bidis manufactured in this Province about 75 per cent valued at about 1 2 crores of rupees are exported to all parts of India, and even Burma That the Central Provinces should be an important bid; making area may at first appear strange in view of the fact that the quantity and quality of locally grown tobacco is of little consequence. The development of bidi making in the provinces has been almost entirely due to the abundant supply of bidi wrapper leaf (discussed later) and cheap labour for bidis are hand made Since it is found more economical to import bidi tobacco than to export bidi wrapper leaf which is bulky for trans port bidi making has developed mostly at those centres in the Central Provinces where wrapper leaf is most plentiful and cheap For example nearly 60 per cent of the bidis made in the provinces are manufactured in the Bhandara district where bids wrapper leaf is plentiful in the local forests. Practically all tobacco used for bidi making is imported. There are about 890 bidi making shops in the Central Provinces and Berar located in 347 villages and towns Of these 895 shops 185 are bigger shops employing on an average more than 50 workers per day while the remaining 710 are smaller concerns which employ less than 50 workers per day three fifths of the total manufacture of bidis in the provinces are controlled by four leading bids making firms from Jubbulpore Gondia \agpur and Kamptee The average daily output of bidis in the provinces is estimated at about 5 crores. The number of persons engaged in bidi making is little over 42 000 of which about 31 000 persons work in the Bhandara district alone

(b) Manufacture of bids: The principal ingredients in bids are the bid tobacco mixture and the wrapper leaf. The most popular and widely used lid tobacco are the varieties, grown in the Charotar and Vipani areas of the Bombar Previdence. The Charotar tobacco is known to the trade as Gegerati while the tobacco from the Vipani area i called Vipani. In order to cheapen the cost of bit manufacture sometimes, to according to Bibar United Provinces. Vizam's Dominions Visore and scraps and rejections from Guntur tobacco are used to mix with the Gujerrai and Vipani to according to the contract of the con

Generally there are three sizes of bidity her medium and small according to their learness which are about 3 melies 9½ inches and 2 inches respectively. About four fifths of the bidis manufactured in the country however are of medium size. By weight the proportin of wrapper leaf to tobacco varies from 40 to 50 per cent.

(v) Wrapper leaf —The wrappers used for making bids are the leaves of trees Diospyrus melanoxylon and Diospyrus Ebenum, known in different areas of the country as temburn, temburn, tumuta, tendu, toopael, tunki etc. The trees grow wild in the forests of Central India Central Provinces and Nizam's Dominous which form the main source of supply of bid; wrapper leaf to the country. Leaves of apic tree (Eaglanner racemosa) are also used to a small scale as wrapper but mostly in the Bombay Presidency The right to collect leaves from the forest trees is usually given by anction to contractors and a few bid; manufacturers from the Central Provinces themselves take these contracts.

The most desirable quality characteristics of these wrapper leaves are that they should be of medium thickness pitable large sized and of colour ranging from greenish yellow to light copper red. On an average a leaf yield, 2 to 3 both wrappers. The price of the wripper leaves in the Central Provinces is about Rs 4-50 per thousand bundles of fair average size weighing approximately 3 maunds. They are usually transported in large size guiny bags each containing about 300 to 350 bundles 'one bundle having about 75 to 100 leave,' and weighing about a maund

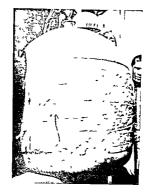
(11) Waking of bidis - The minufacture of bidis (see plate fac ing page 322) is a very simple process. The bundles of wrapper leaves are first soaled in water to soften the leaves which are then cut with a pin of scissors into rectangular shapes of leaf. The average dimensions of the cut pieces are about 3 2 inches in length on one side about 3 inches length on the other side and breadths 1 8 inches and I a inches on the two sides. Some of the manufacturers particularly from the Central Provinces provide the workers with a piece of tin of the proper shape and size to enable the worler to cut the leaf correctly The usual practice is for the worker to take the bundles of wrapper leaf to his house in the evening and cut the leaves into pieces at night after first soaking the bundles in water In this way he has a good supply in hand with which to begin his work the next day In the actual working of bidis, a quantity of tobacco mixture is taken in a scoop of iron or bamboo tray while the operator keeps a number of cut pieces of wrapper leaves close by The wrapper is held by him in his left hand and the tobacco mixture is placed on it and evenly spread along the length. The wrapper is then rolled between the fingures and palms of hand into conical shape and the top or the broad end is closed by bending it over the wrapper with the fingers The other end is tied with a piece of white or coloured cotton thread

In the case of worlers who work in the bull making workshops to see plate facing page 322) it is the usual practice to give to each 'labourer about 10 bundles of wrapper leaves (sufficient to nale about 1000 bulls) to crier, them to his house where they are cut to proper sure at night On his arrival it the workshop the next morning he is provided with a iron or bamboo tray to keep his material Before commencing the dax work he is given a supply of tobacco mixture in accordance with his skill and capacity usually bount 1 to 8 chhalaks of tobacco (sufficient for about 1 000 bulls)



Some of the trade mark labels used by bids manufacturers indicating the very close resemblance of trade marks in regard to form, size, colour and other particulars

Each of the seven labels belongs to a different manufacturer



A roll of manufactured hoolah tobacco

and white or coloured thread depending on the brands he is making It is the usual practice with manufacturers to use thread of different teolours to distinguish different brands After the day's work is over the worker ties the bidis with thread into bundles of 25 each which are then handed over to the manager or inspector of the workshop who examines and counts them and issues a chit in acknowledgment of good bidis received for payment is made only for good bidis. After receiving the bids bundles in the workshop, they are arranged in trays which are placed in a warm room for drying, after which each bundle is wrapped in thin paper and labelled In the Central Provinces it is the usual practice to give the work of wrapping and labeling on a contract at about 14 to 2 piece per 1000 bidis. 20 small bundles are again packed into a bigger bundle which thus contains 500 bidis. These bundles are then ready for the marlet. They are then packed in gunny bags or bamboo baskets or wooden cases for transport.

Manufacturers also adopt the practice of giving a definite quantity of wrapper leaf bids tobacco mixture and thread to workers for carrying the same to their houses for making bids. In most cases such workers are women who male bids at their home during their spare time and carry bids thus made to the workshop. The quantity of wrapper leaf bids tobacco mixture and thread given to each worker is based on the requirements to male 1 000 bids. Paviment is made to the workers on receipt of good bids.

(iii) Cost of making bidis—The cost of making bidis consists of the cost of tobacco mixture wrapper leaf labour charges labelling and packing. The following figures show the average cost of production per 1 000 bidis at some of the important bidi manufacturing centres in the Central Provinces.

Cost of manufacture of bidis in the Central Provinces

\ame of Centre	Cost of tobacco @ 6 chhataks			Cos 10 b les wra lea	of	d er	Cost of labelling and packing			La cha	bou		Total cost per 1 000 bidis			
Saucor Jubbulpore or Kam	Rs 0	A 3	F O	Rs 0	A 0		Rs 0	A 0	P 6	Rs 0	7		Rs 0	11	3	
Gond a	0	3	0	lo	0	9	0	0	6	0	J	6	0	9	9	
T rora	0	3	0	0	0	9	0	0	6	0	4	6	0	S	9	
Khandwa	0	3	0	0	ı	0	0	0	6	0	8	0	0	19	6	

It will be observed that the most important item of the cost is labour. The payment to workers practicully all over the country is made nece work basis is per 1000 bids. The rate in the Central Provinces ranges from 41 to 8 annus per thousand bids, while in

Madras it is about 8 annas per thousand. The tate in Bombay ranges from 6 to 8 annas per thousand while in Sind and other areas the rate may be even up to 12 annas per thousand, particularly in the case of male workers. The rate for workers who prefer to take the required material to their houses for making buts is usually 1 to 2 annas lower per thousand buts as compared with the rate given to workers who work in the but workshops.

(5) Hookah TOBACCO

(a) Extent and location—The consumption and manufacture of hobbah tobacco in the country are almost entirely confined to the northern provinces, namely, the N W F P, the Punjab, Delhi, United Provinces, Bihar, Bengal, and parts of Rajputana and Central India The annual production of hobbah tobacco in the country is estimated at over 1,300 million ib valued at about 9-6 erores or rupees Almost two fifths of the production is confined to the United Provinces.

In the Punjab and Bhar hookah tobacco is made in practically all towns and many of the villages. In Bengal, it is estimated that about 65 per cent of the local manufacture of hookah tobacco is done by the consumers themselves or by small manufacturers in their homes on a very modets scale. Delhi is an important manufacturing centre the annual average production being estimated at about 36,000 manufs.

The hookah tobacco manufactured in the United Provinces is famous all over the country. Lucknow, Gorakhpur and Rampur are the best known centres for hookah tobacco in the provinces though it is manufactured in almost all towns and several villages. The annual output of manufactured hookah tobacco in the provinces is estimated at over 6 million manufas.

(b) Manufacture—The manufactured hookah tobaccos may be generally divided into two types, the Karua or strong and pungent and Mitha or sweet and mild

In the manufacture of Karwa hookah tobacco, the cured tobacco plants if most are first dried by spreading them in the sun on a clean floor. When sufficiently brittle, they are pounded with the help of a big wooden mortar and pestle. The powered mass is then passed through sieves to remove fine sand and earth. Treadle which is an essential ingredient in the preparation of hookah tobacco signerally prepared by boiling molasses in iron pans so as to remove part of the moisture contained in the molasses. In the preparation of ordinary Karua hookah tobacco, commonly used by poor people, a quantity of treade ranging from one to one and a half times the weight of tobacco dust is poured on the tobacco powder and well mixed first by wooden ladles and when cool by hand and made into balls on eakes of different sizes and shapes (see plate facing page 329). Sometimes powered spices like cloves, cardamom, emnanon and sandal wood are added at the time of mixing the tobacco dust with treade to manufacture better quality Karua hookah

tobacco The treacle is believed to assist the fermentation and consequent decomposition of the tobacco leaves, stalks and mid-ribs It imparts a sweet taste, dark colour and prevents rapid drying

The method of manufacturing high class or Mitha hookah tobaccos, however, is rather complicated and costly and takes a con siderable time before the final product is ready for the market this case tobacco powder is treated with ripe or over ripe fruits like ber, figs, apples, pineapples, plums, plantams and guavas and the whole mass is made into small ball, which are allowed to dry dried balls are then again powdered and a quantity of treacle is added, kneeding the mass constantly with ladles or hand The mass thus treated is then put in big earthen jars buried in the ground and the mouth of the pars closed with a lid and mud plaster paration which is locally known as Khambira or Khameera is ready after a period of one to three months, though in the manufacture of better quality hookah tobacco, the Khambira is not considered sufficiently mature for use till it has been in store at least for one year To the Khambira thus obtained another quantity of tobacco powder treated with treacle, is added and the mixture well stirred to ensure a thorough mixing At the time of mixing powdered spices and perfumes like roses, sandal wood, cloves cardamom cinnamon, etc, are added Sometimes the Khambira is prepared without the tobacco powder In such cases, a mixture of fruits and treacle is first boiled and then put in the buried earthen jars which are then closed up and allowed to remain undisturbed for a period ranging from one to six months or even a year Powdered tobacco is then added to the Khambira along with spices and perfumes

There is no definite proportion between the tobacco, treacle, spices and fruits used in the manufacture of ordinary or high class hookah and each manufacturer follows his own taste and judgment

In order to merease the bulk and cheapen the cost of manufacture, most of the host ah manufacturers use large quantities of various adulterants the principal material used for adulteration being fine sand, earth, quick lime reh, or carbonate of soda cotton waste, dired and powdered leaves of trees and corr fibre Enquiries from manufacturers and host ah tobacco dealers indicate that there is no definite or common proportion in the quantities of different adulterants used Each manufacturer trees his own combination and as soon as he sees that a particular combination has captured the consumer's taste, he retains the same as his trade-secret

(6) CHEWING TOBACCO

(a) Extent and location—Over 156 million lb of chewing tobacco leaf valued at a little over 3 erores of rupees is annually consumed in the country About \$4 per cent of this quantity is consumed in raw condition i.e., without any process of manufacture In the consumption of this bulk a part of the leaf is taken and chewed as is the practice all over Southern India. The other method

of chewing raw tobacco is to take a small bit of powdered chewing tobacco in the palm of the left hand add a small quantity of side lime and rub it with right hand thumb, so that the tobacco is covered with a thin coating of lime. The tobacco thus prepared is then put in the mouth and slowly chewed

The annual average production of manufactured chewing tobacco is about 25 million Ib valued at about a crore and five lakis of rupees. The United Provinces and Delin are the most important areas for the manufacture of chewing tobaccos and account for almost 90 per cent of the total quantity of chewing tobacco manufactured in the country. In the United Provinces the manufacture is carried out in many towns but the important centres appear to be Lucknow and Benares. Delin city is also noted for its chewing tobacco.

(b) Manufacture—Many kinds of chewing tobacco are manufactured but the more important types appear to be Zarda paste of Quaam granules or Danedar and pills

in the preparation of Zarda the tobacco leaf r, first broken into small pieces and then bouled in line water along with spices till the water is evaporated. The particles of tobacco left behind are then drived and coloured with saffron or other vegetable dyes. Sometimes the prepared Zarda is mixed with finely cut betelmut and other waters.

The method of manufacturing other higher types of chewing tobaccos however is as claborate as that followed in the preparation of high clavs hookah tobaccos. Spices and scented waters are liberally used in addition to well flavoured and thick tobacco leaves. The stalks mid ribs and vens of the leaves are first removed and then the leaves are soaked and boiled in water to which scented waters like rose water may be added Spices like saffron cardiamom ainseed and musk are also added in powdered form. The whole mass is then stirred and allowed to digest. The pulpy material is then allowed to dry after straining and removing the remnants of the stalks mid ribs and vens of tobacco leaves. The product their assumes the consistency of a thick and rough paste which is known as Suizam.

In the preparation of pills the tobacco paste as prepared above se further dried and the material made into small nills which are then further dried in the shade. When it is not desired to make pills the material is fully dried and made into a granular paste, sometimes by adding a further amount of finely cut tobacco left. The chewing tobacco thus prepared is usually blackish in colour but sometimes vegetable dyes are used to give it a reddish tinge. The pills and the granules are sometimes coated with gold and silver foolis to cater for the demand of richer people.

(7) SNUFF

(a) Extent and location — Snuff is manufactured in several provinces and Indian States but the most important areas appear to be

Madras, the Punjab and the North West Frontier Province, which together account for a little less than one-third of the total production of snuff in the country. The annual average production in India is estimated at 21 7 million lb valued at about a crore and a half ripees.

In the Madras Presidency Madras city and Mangalore are the most important centres for the manufacture of snuff There are about ten large manufacturers in Madras city some of whom employ as many as 50 persons per day besides about a hundred small manu facturers. At Mangalore there is a large number of small manu facturers but the bulk of the manufacture appears to be controlled by four big manufacturers. The annual vierage production of snuff in the Madras Presidency is estimated at over 3 million 1b

In the Punjab snuff is made on a large scale at Hazro Alpun The annual average production in the province is estimated at a little less than 3 million lb of which 80 per cent is concentration Hazro alone

In the North West Frontier Province the manufacture of snuff is confined only to Pe hawar where there are about half a dozen manufacturers whose total annual output is estimated at 1 000 to 1 200 manufs.

(b) Manufacture—In the manufacture of snuff in Madras the first operation consists of the separation of stalks and mid ribs from the leaves. The leafs portion is then crumbled into small pieces fried and powdered. The powdered tobacco is then further pounded by means of a mortar and a pestle and then sieved. The seved tobacco powder is afterwards gently heated the mass being turned over frequently to prevent its being charred. After cooling lime and ghee are added and the mixture is then passed through sieves of fine meshes. The snuff so prepared is then ready for use. Some times must borne and ammonium salts scents etc, are added in varying proportion to the ordinary, snuff to prepare the scented snuff, which is usually mixed in varying proportions with ordinary snuff before offering for sale

In the Punjab the dried tobacco leaves are first crumbled into small pieces which are then ground into fine powder. The powder is afterwards soaked in water for a period ranging from 10 to 20 days when fermentation sets in When the mixture emits a diaracteristic edour the fermented stuff is removed and dried. At characteristic odour the fermented stuff is removed and their diaracteristic edour the fermented stuff is removed and their Athenia stage it is locally known as Khamir When dry the Khamir is pounded in a wooden mortar and pestle and then shifted through is pounded in a wooden mortar and pestle and then shifted through cheese eloth Next, certain ingredients like slaked lime butter, cheese eloth Next, certain ingredients like cost of production. The whole mass is then again ground after which it is again passed through cheese eloth. The grinding and sifting process is repeated until the product attains the desired stage of fineness.

In the North West Frontier Province, the tobacco leaf is first reduced to fine powder. The water mills at Seria Saleh in Peshavar specialise in this grinding work. The tobacco powder is then stord for fermentation in closed cells which are covered with old wollen blankers or quilts for a period of 2 to 3 months. During this period of termentation the powder is sprinkled with water, stirred, aircal again stored. This process is repeated till the powder acquire the desirable aroma and strong flavour. Afterwards, lime water and dives may be added in small quantities.

B -Adulteration

In the manutacture of eigarettes eigars and cheroots no adulteration is generally done apart from the "flavourings" used by certain namifacturers. The types of flavourings" used are considered as secret and hence it is difficult to indicate whether or not the "flavourings used by certain manufacturers are deleterous to health as already stated, in the United Kingdom the use of even glycerine and the thivlen glycol js considered illegia.

In the manufacture of bidis generally no adulteration of any kind is done Different types of tobacco are nowever mixed to prepare a blend of bid; tobacco powder and for this purpose small juantities of hookah tobacco may be used as is done at certain placein northern India A case of adulteration of bidi tobacco has how ever, been recently noted during the course of this survey A certain gentleman from Penukonda in Anantapur district of the Madras Presidence has prepared a so-called economy tobaccomixture "for which he has applied for a patent in British India Mysore State and the vizam's Dominions. The procedure in the preparation of this "economy tobacco mixture 'consists of select ing Gujerati or \ipani tobacco leaves soaking them in water, washing and drying. The leaves are then to be treated with a solu tion of sodium nitrate and hydrogen peroxide which, the gentleman claims help ignition and retention of fire. The leaves are then soaked in syrup and kept under pressure for 24 hours. The vrapper leaf used for making bidis is then similarly treated Both the tobacco leaves and wrapper leaves, thus treated, are then cut into five shreds and mixed in different proportions say 25 of tcbacco to 75 of wrapper leaf, or more commonly in equal shares. This mixture is then used in making bids in the ordinary way. In making these bidis a small piece of cotton wool is placed at the smoking end and this acts like a filter. It is reported that about 2 laks of baits manufactured from such adulterated tobacco at Lellar, are being sold every month at Rs 140 per thousand, i.e., the same rate for which ordinary types of bidis are sold

Possibly the largest adulteration of tobacco takes place in the inhalacture of hookah tobacco. There is a general bluef that hookah moking is the least injurious to health as the sincke passes through water in the hubble bubbles (see plate facing page 361) and that it gives more pleasure as compared with organettes and bulls. The chief cause, which are responsible for the decline of

kookch smooning are the mechivenience of taking hookah from one place to another, trouble and time required for preparing to tobacco and the smoke and the want of pure and really good stuff in the market. The general quality of the hookah tobacco availation in the market is considered to be very inferior on account of a high propriori of admixture with sand earth and other adulterants. If the manufacturers standardises their articles, adopt registered trade rarks and certify and publish actual constituents of their prepared kookah tobacco, it would appear possible to increase to a small extent the local demand for the manufactured article inspite of the fact that many of the labouring classes and men of small means are increasingly taking to brids and cheap eigerettes.

As in the case of hookah tobacco many of the people in the habit of chewing tobacco prefer to have pure stuff and being unaware of the contents of the manufactured chewing tobacco refrain from using it If however, the manufacturers of chewing tobacco use labels describing the formula or the recipes of the ingredients used, as is done in the case of some of the patent medicines and other proprietary articles manufactured in European countries, there seems to be a ikelihood of mereasing to a small extent the internal demand for manufactured chewing tobacco.

C -Trade marks and brands

All the leading manufacturers of cigarettes cigars cheroots and bids have their own specific brands some of which are reported by them to be registered. There is however no adequate provision of law in British India for the registration of trade marks so as to establish statutory title to them. The existing law for preventing the imitation of popular brands is reported to be very cumbersome.

There have been several complaints both from the Ind an and the several several several copying of well known trade marks and of the flooding of the markets with cheap inferior imitations of popular brands of goods of all kind. This has been particularly noticeable so far as tobaceo trade is concerned in the case of eigerettes eigers and bidis (see plate facing page 325) on account of the copying of trade mirks and brands the or ners of on account of the copying of trade mirks and brands the or ners of one services of the copying of trade mirks and brands the or ners of one account of the copying of trade mirks and brands the or ners of one services that the consequent loss of business in many cases is representation and the consequent loss of business in many cases is

Though there is no legal provision in India for rem.tration of trade-marks and brands many manufacturers get their brands restricted with the local Departments of Registration. There is no specified with the local Departments of Registration of Provision in the Indian Registration Act for the registration of Provision in the Indian Registration Act for the registration of Departments on the state of the restriction of Departments only and the practice obtaining in many areas is to engross a deed of deela ris on describing therein the trade marks and declining it owners are described by the state of the declining the state of the declining the state of the declining the state of the declining the state of the declining th

In spite at the fact that a law for the registration of trade marks does not exist in India protection to owners of trade marks is guest by certain sections of the Indian Herchandise Marks Act of 1859 and of the Indian Penal Code There is however no adequate protesion for statutory title to a trade mith and when the title to a trade mark has to be proved protection is sought under the prosions of the above two Acts While seeking protection under these Acts compliants can lie with evil courts for injunction or for damages but as the civil procedure is often considered to be expeasive and slow protection is sometime, sought in criminal courts

It is further found that some manufacturers in Indian States copy well known trade marks and brands particularly of bids in such cases recourse must be bad to the laws of the States concerned and it is reported that it is often I flicult to secure the necessary protection

It is therefore very examing in the interest of the development of trade that complete legal provision should be made for the registration and protection of trade mails and brains in British India and also in all Indian States. In this connection it may be observed that the Government of India have already got this question in hand and it is expected that a bill may be introduced in the central legistration in the near future.

D-Prices of tobacco products

(1) CIGARLITES

The wholesale praces of all popular brands of cigarettes are fairly uniform all over the court sceept in Indian States where they are influenced by the amount of import duty leved by the States. The wholesale rates of Will's Gold Flake cigarettes for eximple range from Rs. 20.8.0 to 18. 21.00 per thousand those of "Sessors' trom Rs. 17.00 to 18. 17.80 per thousand of Passing Shot," from Rs. 14.00 to 18. 14.60 per thousand and of 'Crasen A

Similarly the price of a 50 eigarette tin of "Craven A" and "State Express, 555" cost Rs 1-40 and Rs 180, respectively almost in any town of British India and Burma

The extent of margin between the wholesale and retail prices may be seen from the following few typical examples —

Margin between the uloles le aid retul prices of cigarettes

 	 too	. 1

		1	Will = Ge	ld Flake	Charminar	Guines Gold Madras			
		,	Allahabad	Travancore	Hyderabad (Dn.)				
Who esale		Rs A r 21 b 0	P ₈ A P	Rs A P	R A P				
Retail			21 14 0	i	3 2 0	6 4 9			
Vargun*			0 6 0	0 6 0	01 0	1 0 0			

Wholesale and retail prices of 1st quality cigarettes, harvest prices of Virginia flue-cured tobacco at Guntur and declared values of imported unmanufactured tobacco

Year		Allahabad							ango	on		pro	Harvest prices of			Declared value of			
	cış	Per 1 000 cigaret tes				Per carton of 10 ciga rettes						Per carton of 10 ciga rettes			flue cured flue cured tobacco at Guntur per cundy of 500 lb			imported unmanu factured tobacco (ex duty) per lb	
	Rs	Δ	P	Ra	٨	P	Rs	A	P	Re		P	Rq	A	Р	Rs	٨	P	
1932	21	1	9	0	3	6	21	4	0	0	3	6	154	0	0	1	0	9	
1933	19	5	7	0	3	6	21	4	0	0	3	6	148	0	0	1	3	6	
1934	21	5	0	0	3	6	21	8	0	0	3	6	127	0	0	1	2	3	
1935	21	5	0	0	ł	6	21	R	o :	0	3	6	143	0	0	1	2	Đ	
1936	21	,	0	0	3	6	21	8	0	0	3	6	150	0	0	1	1	11	
1937	21	5	0	0	3	6	21	8	0	0	3	6	197	0	0	1	7	2	

What is true of Allahabad and Rangoon is equally true for othe places. It is evident that there is no change in the retail prices of eigeneties, though wholesale prices vary occasionally to a small extent. It is also evident that there is no relation between the prices of Indian and imported cigarette oblace o and those of cigarettes in fact it appears to be the policy with all leading cigarettes many claumer in the cigarette prices, particularly in the retail rates charged to consumers as almost every smoker of one of the popular brands of cigarettes will remember that during the past several years there has been no change in the price he pays for his cigarettes.

It may be however observed that in the case of a few popular brands, there has been a definite reduction in the wholesafe and relaif prices during the past four or five years. Thus for example, the wholesale price of a leading brand of eigarettes in Delhi in 1934 was Rs 17.6 of per fhousand as against Rs 14.60 per thousand from 1934 onwards. This considerable reduction in price was possible because until 1933, these eigarettes were being imported from abroud but from that year onwards they are being manufactured in India and offered at lower rates to the public.

^{*}These figures refer to financial years commencing from April 1 The figures shown against 1932, 1933 etc., are for financial years, 1931-32, 1932-33, etc., as it takes some time before the unmanufactured tobacco is used in making eigareties.

(2) CIGARS.

There are numerous brands of cigars available in the natket and there is considerable confusion in the names of brands. Many manufacturers adopt the same or similar names for their brands. The most popular eigars are those manufactured by two hrms at Dindigul and Madras. Gigars manufactured by smaller manufacturers at Trichinopoly have less keen demand

Cigars are sold in boxes containing 25 50 or 100 eigars and a box of eigars forms the unit of sale in whole-ale and retail trade, except when they are sometimes retailed singly by hotels restaurants and tobacconists. So far as the catalogue prices are concerned there is no difference between the wholesale and retail prices. The manu facturers allow a discount ranging from about 5 to 40 per cent on the published prices to all eigar dealers and tobacconists. The cheaper brands are allowed a lower rate of discount than that per mitted on the more expensive brands. The price of a box of 50 eigars varies in accordance with the type and brand and may range from Rs. 200 for "Planter's Ordinary No. 1 (Spencer's) to Rs. 12100 for "Casino Coronas de Liuxe (Spencer's).

Enquiries indicate that there has been practically no charge in the prices of cigars at least during the past ten vears and there is complete absence of seasonal variation in prices. Except in several Indian States where prices are inflated on account of the levy of import duties license fees etc. the prices of cigars are almost uniform all over the country as it is the practice with manufacturers to hear the transport, octro terminal and other charges incidental to despatch of cigars to the dealers. Variation of prices from one dealer to another is small and occasional as it is one of the conditions of wholesale purchase that cigars will be sold to consumers at fixed prices.

(3) CHEROOTS

High class cheroots like the Oakes & Co's cheroots and Monlmen" cheroots manufactured by Spencer and Co sell at prices ranging from Rs 2 to Rs 5 for a box of 100 cheroots in accordance with the type of the brand In the case of these cheroots all o there is no seasonal variation in prices and no notice oble change in prices has been observed during the past ten years

The prices of Burmese cheroots vary in accordance with the type and size Superior quality strong cheroots (Hise byin leth.) are old at Rs 280 to Rs 30.0 ner hundred whole-ale and half an amap per cheroot in retail The prices of ordinary bazzar quality aste and 1/12 to \(\frac{1}{2}\) of an anun each in retail The prices of middle whole-strong cheroots range from 5 annas to Rs 120 per hundred whole-strong cheroots vary in accordance with the size and 1/10d of Burmese cheroots vary in accordance with the size and 1/10d of Burmese cheroots vary in accordance with the size and 1/10d of Burmese cheroots which are 11 to 13 inches long and for which the wrapper used is the sheath that envelops the leaf for which the wrapper used is the sheath that envelops the leaf for which (area nut palm) may sell at Rs. 7 to Rs. 25 per base of Kun bin. (area nut palm) may sell at Rs. 7 to Rs. 25 per base of Kun bin. (area nut palm) may sell at Rs. 7 to Rs. 25 per base of at whole-ale rates and in retail 2\(\frac{1}{2}\) to 6 annas may be

charged per cheroot Such cheroots are however used on eer montal occasions. The wholesale prices of other sizes of cheroots of the same type as above range from 12 annas to Rs 2 12 0 per hundred and in retail each cheroot may be sold for \$\frac{1}{2}\$ to \$\frac{1}{2}\$ of an anna The cheroots for which matze cob sheath is used as wrapper are sold at Rs 12 0 to Rs 14 0 per hundred wholesale and in retail each cheroot is sold at 2 to 3 pies

In the Midras Presidency the ordinary common twisted choroot widely used by smokers in Southern India may sell whole sale at Rs 170 to Rs 10 per thousand Brands which are cheaper selling at less than Rs oper thousand are more commonly smoked. The retail prices range from one to five annas per bundle of 25 cheroots

Both in Burma and Madras there is no seasonal variation in prices are even very to year fluctuation is small and occasional with all leading manutacturers. The change in prices if any is governed mostly by competition from other manufacturers.

(4) Bidis

The wholesale and retail prices of bidis particularly the former vary almost from one manufacturer to another. The following figures indicate the range of wholesale and retail prices in some of the important areas.

Wholesale and retail prices of bidis

Area	Wholesale per 1 000 b dis	Retail per bun lle
Bengal	Re 100 to Rs 150	6 to 9 pies
Bombay	Re 100 to Rs 1100	6 to 9 pies
Madras	Rs 136 to Rs 1 153	6 to 12 pies
C 'P	Re 0 14 6 to Rs 1 2 0	6 to 9 pies
Punja?	Rs 1 4 3 to Rs 2 5 0	9 to 15 pies
U P	Re 0 10 0 to Rs 1 0 3	6 pres
Delhi	Re 100 to Rs 200	6 to T' pics
Аьват	Re 100 to Ps 140	6 to 9 pies
Hyderabad (Dn)	Re 0 10 8 to Rs 2 3 5	4 to 12 pies
Burma	Ps 1 12 0 to Rs 2 8 0	12 to 15 pies

It is observed that there is practically no seasonal variation in the prices of bids and even year to year variation is only occasional and takes place wherever there is competition among bidi manufacturers. Enquiries made of some of the leading bidi manufacturers in the Central Provinces indicate that during the past eight vears bid prices have declined by about four annas per thousand chefth as a result of competition among the manufacturers them selves. Generally variations in the prices of bidi tobacco affect but tittle the prices of bids.

(5) Manufactured hookah tobacco

Bulk of the manufacturers, themselve, retail the hookah tobacco Prices van from etc. manufacturer to nother in accordance with the kind and quantit of ingredients and adulterants used in manufacturer to fingredients and adulterants used in manufacturer. The retail prices of ordinary hookah tobacco range from 2 to 4 amas per seer while those of expensive types may be as high as Re 1 to Rs 2 per seer. The wholesale prices are generally 20 to 30 per cent lower than the retail prices. In common with other tobacco products there is almost complete there is descended variation in prices and it is further observed that there is practically in relation between the prices of manufactured hookah tobacco and those of the immanufactured product.

(6) MANUFACTURED HEWING TOBACCO

In the case of manufactured chewing tobacco the manufacture is fix the price of each quality in accordance with the kind and quality of tobacco and other impredients used. In few of the tobacco products does such a wide range of quality and prices exist. The lost of the tobacco forms but a fraction of the total cost of manufactured chewing tobaccos and in fixing the prices the cost of other ingre hents used like nutner muck saffron seems cardiamom and other spaces play a dominant part. The following figures show the range of prices for different kinds of chewing tobaccos sold by a leading manufacturing firm in Delhi City.

Price of cheuing tobacco in Delhi
(Per seer)

												_			_
Name of chewing tobacco	Ist quality			and quality			3rd quality			4th qual ty			5th quality		
Zafranı Benarsı Patrı Og Tobacco Mushlı Danadar	1			Rs 32						1				•	
Mushi: Pali	61	0	0] 2	0	0	2	0	0	,	8	0	,		U
Zafranı Benarn Pattı Sada	2	8	0	,	0	0	1	8	0	1					
Tobacco SurIh Patts	32	0	0	16	0	0	9	0	0	5	a	o	2	8	0

The prices given in the above table are wholesale rates and the retail prices are generally about 20 to 30 per cent higher. The unit

of retail sale is a tola and the retail prices range from 1 anna to Rs 4 or even Rs 5 per tola. Since the cost of tobacco itself forms but a fraction of the total cost of manufacture of chewing tobacco the level of prices of unmanufactured tobacco has no effect on the price of manufactured chewing tobaccos and seasonal variations and year to year fluctuations are occasional. Changes in prices if any are made entirely on account of competition from other manufactures.

(7) SNURE

The prices of snuff also are governed to a large extent by the kind and amount of ingredients used in manufacture In Madras the wholesale rates range from 10 annas to Rs 16 per seer while in the case of high class snuff sold in Bengal the prices may be as high as Rs 18 per seer Similar are the price variations observed in other areas. The retail sale is very rarely done on the basis of weight and almost all consumers purchase snuff in retail either in packets or phials. Generally the retail rates are about 12½ to 25 per cent inhigher than the wholesale prices. The periodicity and almost entirely by competition among the manufacturers and the cost of manufacture.

E -Distribution

The total ex factory value of all the tobacco products melud my unmanufactured tobacco consumed in its raw condition as in the case of hookah and chewing is estimated at about 37 cores of rupees. Adding at a moderate estimate 25 per cent on account of transport and distributing charges the total value of tobacco trade can be easily estimated at over 46 cores of rupees per annum

(1) WHOLESALE TRADE

The wholesale distribution of tobacco products is done by one or more of the following methods —

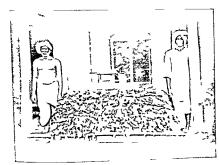
- (a) Manufacturer's distributing depots
- (b) Distribution through agents and sub agents
- (c) Distribution through travelling inspectors
- (d) Direct sale to retailers and consumers

(a) Manufacturer's distributing depots—Almost all the leading cigarette manufacturers in the country and a few bids manufacturers from the Central Provinces have opened their distributing depots at centres located in important consuming areas. These distributing depots usually supply goods to their respective agents and sub agents within their jurisdiction. Direct sale to consumers is not made by these depots but goods may be supplied to retailers when agents and sub agents do not exist.

[Facing page 342



Weighing tobacco in Guntur



Weighing tobacco in Guntur



A country tobacconist s shop retailing chewing and smoking tobaccos.



Weighing tobacco in villages in the Charotar area of Bombay Presidency.

(b) Distribution through agents and sub agents—All eigerette factories and a few bud manufacturers from the Central Provinces, Madras and Bombay appoint agents to serve specified areas. In the case of leading eigerette manufacturers the agents are generally given sole rights of distributing particular brands of eigerettes. When sole agents are appointed the manufacturer does not supply the goods direct to the retailers or other wholesalers. In case the area allotted to an agent is large sub agents are appointed on the recommendations of agents but the sub agents are usually supplied with goods by or through the agents.

For their services the agents and sub-agents get commission from the manufacturers. The rates of commission vary from one manufacturer to another and in accordance with the brand of eigarettes sold. The rate of commission is lower for low grade than for high grade digarettes and generally varies from 2 to 10 per cent. of the gross value of the eigarettes supplied to the agent. In the case of new brands of eigarettes put on the market and new eigarette factories the rates of commission are usually high and may range from 10 to 20 per cent. The agents and sub agents are supplied engarettes f o r to the nearest railway station and charges on account of handling and transport from the station to the agent s godown are usually borne by the agent himself. Very often the manufacturers themselves defray the charges on account of octron and terminal charges if any Some manufacturers allow their agents to return the stock of unsold eigarettes and empty packing eases for which refund is given on rates varying from 4 annas to one rupee per case All cigarette manufacturers usually prefer to make sales to their agents in cash but generally credit is allowed for a period ranging from a week to a month. Usually it is the condition put by the manufacturer that the agent or sub-agent shall not deal with eigarettes manufactured by other companies. Nearly half the commission allowed to the agent is passed by him to the sub agents and retail dealers The agents and sub agents usually have instructions to ask the retail dealers to sell the eigarettes only at standard retail prices

The distribution of eigars cheroots and pipe and cut tobaccos is done in a similar manner

The manufacturers of bidis allow a commission ranging from Re 1 to Rs 2 per bag containing about 40 thousand bidis

In the case of other tobacco products viz hookah chewing and snuff there is generally no system of appointing wholesale or distributing agents

(c) Distribution through trainfling inspectors—All the important eigarette manufacturers and a few rights and bidd manu facturers appoint travelling representatives or inspectors who go place to place advertising their respective goods and carrassing from place to place advertising their respective goods and carrassing for orders. In case the travelling inspector enters an area normally served by an appointed agent he is to work in consultation with the agent. The inspector goes from place to place and on receipt of

orders passes them to the respective agent or direct to the factory if there is no appointed agent for the area in which he has secured orders

(2) RETAIL TRADE

The dealers who retail tobacco products are usually panuallas, provision and oliman stores hotels and restaurants and tobacconists (see plate facing page 343). Specialised tobacconists' shops dealing in cigarettes cigars pipe and cut tobaccos etc are only found in big cities like Bombay Madras, Calcutta Delhi Lahore etc. Bulls of **eretail distribution is done by panuallas and provision and oilman's stores.

(garettes are sold to consumers either in cartons of 10 s or in time of 50's. The pannallas also retail eigarettes by numbers as one or two per pose. Bulls are retailed either per bundle of 25 bulls or per count for a pice. Cigars and cheroots are retailed by boxes or per count. In Madras and Burma the local cheroots are retailed either in bundles of 25 or by count per unit of value, eg. one anna or one pice. Pipe and cut tobaccos are invariably retailed in scaled tins by provision stores and tobacconsts.

Manufactured hookah tobacco is retailed by weight of a seer or fraction of a seer. Manufactured chewing tobaccos are also retailed by weight but in the case of high grade chewing tobaccos the unit of retail sale may be as low as one tola or 1/80th of a seer. Snuff 18 on eigrarettes eigars ind cheroots may range from 8 annas to lis 5 per maund while that on unmanufactured tobacco may vary from 9 pies to 8 annas per maund Bids may be charged at 1½ annas to Re 1 per maund while the same rate is levied on chewing tobaccos

In the Punjab the tax ranges from 1 anna to 8 annas per maund of unmanufactured tobacco 2 annas to Rs 4 per maund of egarettes eigars and cheroots and 1 anna to Rs 280 per maund of bolds. In Delh: the rate of terminal charge is 8 annas per maund on foreign tobacco of all linds including Indian and foreign eigarettes ciga's and cheroots 2 annas per mund on Indian unmanufactured tobacco of all sorts and 6 piese per manuf of tobacco dust

In Mysore octroi clarges are levied by all municipalities. The rate ranges from Re 1 to Rs 3 per mound of 24 lb of unmanufactured tobacco 6 pies to 2 annas per 1 000 bides 1 anna to 4 annas per 1 000 eigerettes and 5 annes per pound of snuff. Besides every loaded cart entering the municipal limits has to pay toll charges and the rate is 4 annas per cart drawn by two bullocks and 2 annas for single bullock carf At Petlad in Baroda State where there is an extensive trade in bidi tobacco the local municipality levies both the toll and octrol charges Tle rate of toll charge is 2 annas per cart load and that of octron varies from 2 annas to 4 annas per local maund of 40 In Cochin only toll charges are collected at the rate of 4 annas per cart load At Pudukkotia, every cart load of tobacco bas to pay a frontier toll of 4 annas besides the municipal tax of another 4 annas per cart In Kashmir octroi charges at Rs 2 per maind are 4 annas per care in Ausmini octro charges at its 2 per manna at imposed for all tobaccos entering municipal limits. Most of the Indian States in Rapputana and Central India levy import and export duties on tobacco and tobacco products at rates ranging from 8 annas to Rs 2 per maund

G-Licensing and control of tobacco trade

Among the Indian provinces only Bombay and Sind have got a system of hecusine all tobrece traders. Minority of the Indian States levy import and export duties on tobacce and tobacco products and some States like Cochin and Patiala have adonted a system of auctioning out the rights to trade in tobacco and tobacco products in Travancere apart from heavy import duties, all tobacco dealers are licensed.

In Burma no restrictions exist in regard to trade and manufacture of tobacco

It may be stated at the outset that the system of licensing and other methods of control existing in certain Indian provinces and States aims entirely at the collection of revenue and no attempts have so far been made to control with a view to develon trade. In many countries of the world (cg. Japan France Italy Spain etr.) Governments themselves are now controlling some or all the stages of the tobacco trade and industry. Tobacco industry is one of the few which has suffered practically no set back during the recent

depression period and many Governments in Europe and America consider it exeremely important to improve and develop their tobacco trade as it forms an important source of revenue. In this connection it may be mentioned that in the United Kingdom tobacco produces more revenue than any other tem of the Customs and Excise Tariff, having displaced beer in this respect after the reduction of beer duty in 1933. In 1936 the net amount of duty collected on tobacco was nearly 70 million pounds sterling. Even in the United States of America, the home of the world's commer call tobacco types, tobacco ranks second among the sources of internal revenue and third among all sources of ordinary revenue Over 440 million dollars are collected annually

(1) BOMBAY

In Bombay City, a duty on tobacco is levred under the Tobacco Duty (Town of Bombay) Act of 1857 at a uniform rate of Rs 30 per manud on all tobacco and its products, as already noted in the preceding section. In addition, all tobacco dealers are charged a small hence fee. The Act was smended early in 1938 to permit an increase in hience fees and according to the rules recently framed under the amended Act an annual fee of Rs 2 for a hience to sell superior tobacco by retail to persons bolding hiences for sale of superior tobacco by retail and a fee of Rs 48 to others are being charged from September 1 1938. In the case of inferior tobacco, the hience fees are Re 1 and Rs 24 respectively. Combined licences for the sale of superior and inferior tobaccos to hience holders and non hiecone holders are also issued on payment of fees prescribed for such combined licences.

Superior tobacco is defined to consist of cigarettes, cigars and manufactured tobacco ready for rolling cigarettes, while all other types of tobacco and tobacco products are classed as inferior tobacco

For a licence to sell at any fair fete, dance or other entertain ment, a fee of Re 1 per day is charged, for every day on which such fair, fete, dance or entertainment is held, subject to a maximum of Rs 23 in the case of licence to sell inferior tobacco and of Rs 50 in the case of heence to sell superior tobacco

The duty and licence fees levied in the town of Bombay on tobacco and tobacco products yielded in 1937 38 a revenue of about Rs 17 63 lashs which is expected to rise on account of the proposed increase in licence fees. The duty is collected by the Government of Bombay and till 1937 38 the net proceeds were paid to the Bombay Municipal Corporation and the Bombay Improvement Trust in a certain proportion. The Government have, however, now decided to Appropriate from 1938-39, Rs 5 lashs from the proceeds of the duty

In other parts of the Bombay Presidency, every dealer has to possess a licence for dealing in tobacco or its products, in accord ance with the provisions laid down by the Bombay (District) Tobacco Act of 1933 as amended in 1935. The schedule of icence fees was as under —

Wholesale business Rs 15 per year
Reta I bus ness or hawk n. Ps 2 per year

Ps 2 per year in any case where the aggregate sale in any year does not exceed Rq 200

L cence for a broker

Ps * per year

Other cases

Re 1 per cent per year on the aggregats
sale in any one year

This tax prevailing all over the Presidency except the Town of Bombay vielled a revenue of Rs 2 33 lalls in 1937-38 and is expected to give in additional revenue of about a lalk of rupees in consequence of the proposed increase in the rates of hience fees

With the object the Bombay (District) Tobacco Act was further amended in 1938 and in accordance with the rules framed under the provisions of the amended, Act the rates of heence fees have been raised from September 1 1938. It is proposed that under the new rules a person holding a heence for wholesale sale shall subject to a minimum of Rs 280 and a maximum of Rs 30 be assessed at the following rates —

annual aggregate sales	Licence f e
Less than Rs 500	Rs A P
Rs 500 to Rs 999	2 8 0
Rs 1 000 to Rs 2 999	5 0 0
Rs 3 000 to Ps 9 999	10 0 0
Re 10 000 to Rs 19 999	20 0 0 40 0 0
Rs 20 000 and over	40 0 0

For a brokers in enne a fee of Rs 2 per annum is charged while the licence fees charged to retailers and hawkers are subject to a maximum of Rs 50 in the case of superior tobacco and Rs 25 for inferior tobacco in any urban area which the Government may by notification published in the official gazette specify. In other areas Rs 2 per year are to be charged for a retailers or hawker's heence

In accordance with the Sales tax Rules framed under the amenocd Act a sales tax of 12\frac{1}{2} per cent is to be levied on the whole-sale or retail sale or sale by a hawker of tobacco in the municipal areas of Bandra Kurla Vile Parle Andheri and Ghatkopar and Ahmedabad City and Cantonment and Sholapur City

(2) SIND

Since Sind formed a part of the Bombay Presidency prior to Application 1936 all the tobacco dealers in Sind were licensed under the provisions of the Bombay (District) Tobacco Act of 1932 as amended in 1935 till March 21 1938 From this date the Bombay (District) Tobacco (Sind Amendment) Act 1938 came into force and the annual licence fees were raised to Rs 50 for wholesale trade the fees charged to retailers ranging from Rs 2 to Rs 4 per year. The licence fee for a broker remains unchanged at Rs 2 per annum

(3) TRAVANCORE

The tobacco trade in Travancore State is controlled by levy.ng import duties and licensim of dealers in tobacco. The import auty on unmenufactured tobacco imported from laftna in Cerlon is 78 high as Rs 135 per cand of 600 lb. On civarettes an import 1 y of 20 let cent i clurged while on cenars the rate of dutiv is 12 per cent on other types of tobacco and tobacco products the rate of duty is 8 per cent. The annual revenue realised on account of import duties ranges from 27 to 99 lal hs of rupees

In 1935 36 about 800 wholesale hierces and over 12 000 retail therees were issued for the sale of tobacco and tobacco products in Travancore State. The wholesale dealers pay to the Government a hierce fee of Rs 10 per annum while retail merchants are not per witted to have any stock more than 10 bb of tobacco and cannot sell more than 1 bb at a time

[Manufacture and distribution of tobacco products

INTER CHAPTER TEN

The total whole-ale value of all tobacco products is estimated at about 37 crores of rupees. This includes manufactured products such as cigarettes, etc., and unit anufactured tobacco consumed in its raw condition, as in the case of hool ah and chewing tobaccos. Adding at a miderate estimate 25 per cent on account of transport and distribution charges, the total value of the tobacco trade can be safely estimated at over 46 crores of rupees per annum.

There has been a rapid rise in the manufacture of cigarette- during the past 15 years In 1923 there were only 11 cigarette factories employing on an average about 5,000 per-ons per day In 1935, the number of cigarette factories increased to 22 of which four employed on an average 4 600 persons per day while the remaining 18 were employing about 3 400 persons daily annual production of cigarettes in India is estimated at about 7,500 million cigarettes valued at nearly six crores of runees The Tobacco Manufacturers (India) Ltd. and the Cigarette Manufacturers (India) Ltd are esti mated to produce three-fourths of the total annual eigarette production. The selling organisation of these two companies, viz, the Imperial Tobacco Company of Irdia Ltd., handles 75 per cent of the total trade of eiga rettes in India, including imported goods Cigarette factories are spread all over India, but the more im portant ones are located at Bangalore, Monghyr, Saharanpur, Calculta Bombay, Sukkur and Hyderabad (Decean)

Cigars are made almost entirely at Dindigul, Trichinopoly and Madras The trade and hence the volume of manufacture of eigars is steadily declining At present about half a million lb of tobacco is used in the manufacture of cigirs annually and the number of cigars manufa tured is estimated at about 30 millions valued at about 15 lakhs of rupees

The manufacture of cheroots is confined almost entirely to the Madras Presidency and Burma Cheroot making is practised as a cottage industry all over the Madras Presidency and parts of Mysore and the Nizam's Dominions. The annual average output of cheroots in India is estimated at 90 to 92 million 1b or about 18,500 million cheroots valued at over 9 crores of rupees.

In Burma cheroot rolling is essentially a small local industry, women who are rollers with some degree of skill, being found in almost all towns and in most of the tobacco producing rillages. The work is generally done and the business managed by women. On an average about a thou-and million strong cheroots using about 24 million lb of tobacco are annually manufactured in Burma. In addition, a little over 6,000 million mild or totch cheroots for which about 58 million lb of tobacco is used, are produced annually. The value of the annual production of strong and mild cheroots is estimated at 8.7 crures of rupees.

There is practically no area in India where bidts are no inautifactured to some extent. Over 75,000 million bidts are annually manufactured in the country using about 70 million ib of tobacco. The total value of the munifacture is estimated at 7.5 errores of rupees Almost one fourth of the total production is concentrated in the Central Provinces which hold a dominant place in the interprovincial trade in bidts. Madras and Bombay together contribute about 40 per cent to the total bidt production in the country, while the remaining production is distributed over the remaining part of the country.

The manufacture and consumption of hookah topacco is almost entirely confined to the northern provinces, viz, the North West Frontier Province, Punjab Dellin, United Provinces, Bihar, Bengal, Assam and parts of Rajputana and Central India The annual production of hookah tobacco in the country is estimated at over 1,300 million lb valued at about 9 6 crores of rupees Almost two fifths of the production is confined to the United Provinces

The United Provinces and Delhi are the most important areas for the manufacture of chewing tobacco and account for almost 90 per cent of the total quantity of chewing tobacco manufactured in the country. Over 156 million lb of chewing tobacco leaf valued at a little over 3 erores of rupees is annually consumed more than four fifths being consumed in raw condition, i.e. without any process of manufacture

Snuff is manufactured in several provinces and Indian States but the most important areas appear to be Madras, the Punjab and the North West Frontier Province The annual production in the country is estimated at 21 7 million lb valued at about a crore and a half of rupees

No adulteration is generally done in the manutacture of eigarettes eigars and cheroots except the "flavour mgs" used by certain manufactures. The composition of "flavourings" is considered secret and hence it would be difficult to indicate the nature of the "flavourings" used by certain a anifacturers without further detailed investigation. It may be stated that in the United Kingdom, the addition of solid matters and even the use of glycerine and diethylene glycol is prohibited in products meant for home consumption, though the use of essential cils for the purpose of flavouring any tobacco product and of clive oil and sweetening matter in the case of ynolling tobacco is permissible. In the

manufacture of bidis no adulteration of tobacco is gent nally done, but a case was noticed in the Madras Presi dency where finely cut bidi wrapper leaf was mixed with bidi tobacco before manufacturing bidis in the ordinary way This is definitely an attempt to sell to consumers as tobacco something which is not tobacco Possibly the largest adulteration takes place in the manufacture of hookah tobacco where large quantities of fine sand, earth, quick lime, ieh or carbonate of soda, cotton waste, dried and powdered leaves of trees, etc., are used to mix with tobacco The general quality of hookah tobacco avail able in the market is considered to be inferior on account of adulteration and many hookah smokers prefer to pre pare their own hookah tobacco Similiarly many of the people in the habit of chewing tobacco prefer to have pure leaf and being unaware of the contents of the manu factured chewing tobacco, lefrain from using it If the manufacturers standardise their hookah and chewing tobaccos, adopt registered trade marks and certify and publish the actual constituents of their products, there seems to be a possibility of increasing to some extent the internal demand for manufactured hookah and chewing tobaccos

There is severe competition among manufacturers, particularly those of cigarettes cigars cheroots and bids. Trade marks and other distinguishing marks are frequently copied, while wholesale and retail distributors are offered by manufacturers all ours of attractive terms to push the sale of their respective products. These defects should be remedied by the better organisation of manufacturers to regulate output and distribution and by making a more comprehensive legal provision for the registration of trade marks. It is understood that the Government of India propose to undertake the necessary legislation in the near future

There is a complete absence of periodical variation in the prices of any tobacco product, excepting possibly

in the case of new brands put on the market by new manufacturing concerns. Even year to year variation is rare putful uly in the retail prices charged to consumers though some manufacturers occasionally make a slight reduction in wholesale prices of some of their brands whenever there is competition from similar products of other companies. Usually there is no apparent relation between the prices of tobacco products and those of immanufactured tobacco

The imposition of octrol terminal and other charges by municipalities and other local authorities hampers the development of trade in many places increases dis-tribution costs and penalises the local merchants and manufacturers to the advantage of the others elsewhere where such taxes are lower or do not exist. An extreme example is that of the town of Bombay where the tax (known as tobacco duty) is as high as Rs 30 per maund on all tobacco and its products, the duty on tobacco pro duets being levied on the basis of tobacco contents At many other towns and cities, the rates of octror and ter minal charges vary from 1 anna to Rs 5 per maund of cignrettes 8 annas to Rs 5 per maund of cigars and cheroots 14 anna to Rs 3 per maund of bidts, 1 anna to 10 anna per maund of unmanufactured tobacco 1 to 8 annas per maund of hookah tobacco, 4 to 12 annas per maund of chewing tobacco and 1 anna to Rs 180 per mound of snuff The hampering effects of these taxes on the development of trade in agricultural products can hardly be over estimated and it is suggested that the local authorities concerned should take steps to remove these disabilities

Bombay and Sind have adopted a system of charging licence fees to all tobacco traders. The majority of the Indian States levy import and export duties on tobacco and its products and some Stries like Cochin and Patiala follow the system of auctioning out the rights

to trade in tobacco and tobacco products In Travancore, apart from heavy import duties, all tobacco dealers are licensed The system of licensing and other methods of control adopted in Bombay, Sind and some Indian States aims entirely at the collection of revenue and no attempts have so far been made to exercise control with a view to developing the trade on proper lines In several other countries, eg, Japan, France, Italy, Spain, etc., the Governments thmeselves are now managing some or all the stages of the industry and trade The tobacco industry is on e of the few which has suffered practically no set back during the recent depression period and many Governments in Europe and America consider it ex tiemely important to improve and develop their tobacco trade as it forms an important source of revenue If tobacco in India is ever to constitute a permanent source of revenue it would be a mistake to neglect to take suitable measures to unprove and develop its production, trade and manufacture. The need for uniformity of taxation and for concerted and co-ordinated action by all concerned should be carefully considered

CHAPTER XI - MISCELLANEOUS

A -Weights and measures and units of sale

(1) CURRENT WEIGHTS AND UNITS OF SALE

Unmanufactured tobacco is almost invariably sold by weight and never by measure. The system of weights adopted in different parts of the country is most complicated and in many cases mecompte hensible. Very often the weights for buying and selling are different and the weight of a manund while buing, tobacco from the growers is different and higher than the weight of a maund used by merchants while selling. In some areas e.g. Bengal Bilar and the United Provinces the village weights are very largely of stones and breks stamped iron weights being extremely rare. In some parts like the North Bihar stones are not easily available and stone weights once made may be used for a ceneration.

In the North Bengal area the weights used vary even from one area to another of the same district. In Rangpur district for example a seer may be equal to anything from 60 to 93 tolas A maund ranges between 40 and of seers. The weight of a kalachands maund in this district is as much as 21 600 tolas or 270 standard seers of 80 tolas In accordance with the provisions of the Bombay Weights and Measures Act the weights used in the Charotar and Nipani areas are now standardised At Sangli and Jayasingpur the unit of weight is an athi of about 224 lb. In the Guntur area farm cured leaf is sold in terms it a candy of 500 lb while in other areas of the Madras Presidency there are several other units of sales as poths bharam thulam putty maund sess etc. In the North Bihar area the unit of sale is a maund but its weight varies from place to place even in the same district. In Paina district alone where there are about a dozen systems of weights the weight of a seer may be anything from 44 to 88 tolas. In the United Provinces a maund of tobacco weighs 55 seers at Farrukhabad 481 seers at Campore and 46 seers at Benares Similar variations are observed in the Punjab where the weight of a seer may be as low as 32 tolas and as high as 100 tolas In the North West Frontier Province each district in the province has its own local seer of different denomina tions (in tolas) In Peshawar a seer is equal to 100 tolas A Peshawari maund weighs about 108 lb

In the *Uysore State* the unit of sale is the local manud. Its weight is not however the same through ut the State. At Ravandur a maind is 32 lb at Sira 283 lb while at Alur it is 265 lb. There is a weights and measures regulation in force in the Ussore State which defines the local standard manud of 40 sers of 24 tolas each and also enforces the compulsory use of the local standard weights and measures in the important trade centres of the State. The important tobacco markets however are not included in the list of places where the use of the local standards is enforced. In the *Baroda State* the normal weight of a local maind is 40 lb but in the sale of grower stobacco the weight of a maund which varies from village to village may be anywhere between 42 and 47 lb.

The unit of sale in Burma is the tiss of 3 6 lb

(2) SCALES.

Large beam scales are used in the wholesale trade while hand scales are used for weighing smaller quantities. Except in Guntus area standard scales like the Avery's balances are very rarely used by merchants at the time of buying unmanufactured tobacco from the growers Platform balances and weighing machines are almost exclusively used by cogarette tobacco leaf buyers in the Guntur area (see plate facing page 349). An ordinary beam balance used in villages and markets consists of an iron beam, at the two ends of which are hung by means of stout iron chains or ropes the pans made of wood or bamboo strips or cane or occasionally of Sometimes there is only one pan on which a bundle or bag of tobacco is put the weights being hung on the other side (see plate facing page 342) In some villages e.g. those in North Bihar, the scale used is made of an ordinary wooden beam with the weighing pans hung by means of strong ropes at its two ends A hole is bored in the centre of the beam through which a string is passed and this acts as a fulcrum Sometimes there may be more than one hole in the beam so that the position of the fulcrum can be changed if it can be done without being noticed by the aggrieved party The string in the fulcrum is sometimes made to fit so tight and stiff that the quantity weighed can be easily manipulated account of multiplicity of weights and the use of any kind of scale. the grower is in many cases at the mercy of the weighman who more often than not favours the buyer at he cost of grower

In Burna the scales used in villages are the ordinary wooden beam scales which the growers or sellers can check against the scale which they believe to be accurate in their own houses or in the shops of local dealers. In markets like Rangoon platform balances are more commonly used

(3) STANDARDISATION

The chaotic state of the systems of weights and measure ad juted in different parts of the country has already been described in the other reports of the marketing series. It all a stands in the war of development of market intelligence service and trade. The exis ing conditions, further provide a good's ope for exploiting the illustrate and the ignorant grower sellers and there has been practically no effective organisation excepting possible lately in the Bombay Presidency to check the fraudulent practices by the intermediaries of manipulating weights and cales. Several municipal authorities and distinct boards in the country lave adopted the noted by leading framed by their food Governments to prescribe the set it standard weights and measures but most of them have tailed to put them into practice effectively. Beside there has been no regular and effective inspection services outside the Bomba I residency

The question of standardisation of weights and measures on an all India basis has engaged the attention of the Government of India for over a hundred years but so far no standard weights and

measures have been established for the whole country. The only statute of the Goternment of India on the subject appears to be the Act XXXI of 1871 which made the kilogramme of the metric system the standard seer of India. This Act however has remained a dead letter. Soon after the enactment of this statute the Government of India passed a resolution in 1875 stipulating that the Indian maund of 40 seers (1 seer being equal to 80 tolas) should be the standard in use on all guaranteed and State Railways and in the collection of agricultural and price statistics. In 1913 a committee was set up to re examine the question. The committee reported in 1914 recommending the adoption of the same standards which they called Indian Railways Weights based on a maund of 40 seers a ser of 80 tolas and a tola being 180 grains equal to the weight of a rupe Immediately afterwards however the War intervened and no action could be taken on the committee's report on an all India basis.

Since then it is only the Government of Bombay which have enacted a comprehensive legislation called the Bombay Weights and Measures Act of 1932 which has been applied to the whole of the Bombay Presidency from March 1936 According to the Bombay Act a tola consists of 180 grains 80 tolis making one seer The maind equals 40 seers and 3 maunds male a Bombay Map Similarly standards have been prescribed for measures. Weights and measures laboratorics I are been set up to verify and check these weights and measures The Act is administered by the Direct r of Industries assisted by an extensive imprection staff froughout the province. It is however understood that the old weights and measures which were being used before the introduction of the standards have not yet been withdrawn and it is likely that they are still being used in some places particularly in the remote rural areas. Similarly it is understood that the pound and seer continue to be used so that merchants may use the pound weight for selling and seer weight for buying. An ordinary buyer believes that a seer is equivalent to 2 lb but it actually weighs 2 bold.

Under the new constitution weights and measures is a provincial subject, but the establishment of standards of weight is central. The tola seer and maind are the most widely used in the country the tola being commonly understood to be equivalent to the weight of a new rupee (180 grains Troy). The weights used on all the railways are the maind and seer each seer weighing 80 colas and a maind consisting of 40 seers. Since these weights are the ones mostly widely known it is suggested that the following standard weights should be adopted for India.—

Weight of a rupee (180 grains Troy) = 1 Tola
80 Tolas = 1 Secr
40 Secrs - 1 Magnet

These standards would correspond to the standard weights adopted in Bombry and cause the least dislocation of the existing systems followed in the several areas. Once these were standardised

local Governments could introduce in addition, such multiples or sub multiples of there weights as might be desirable to fit in with other local weights in common use. It is also suggested that the Provinceal and State Governments might give some attention to the question of the scales employed for wholesale and retail trade. The Government of India have decided to introduce central legisla tion for standardising weights, and Provincial Governments will then be in a better position to take active steps to put the standard weights into operation

B -Research

(I) CIGARETTE TOBACCO

ludia is one of the largest tobacco producing countries of the world, but by far the larger part of her production is suited to the needs of the local market. The quality in demand for local consamption his not been suitable for export to and consumption. In European markets where there has been a rising demand for the eigerette leaf, largely of the flue cured type. With a view to increase the foreign trade of India in this commodity and improve the common position of the tobacco grower, it is natural that attention of tobacco research institutions in the country has been largely concentrated on the production of eigarette tobacco suitable for export and manufacture of cigarettes within the country.

The earliest (1920 25) attempts to produce eigarette leaf on a crimmercial cale were made in the Guntur district by the Indian Leaf Tobreco Development Company, Limited, which introduced several exotic varieths from the United States of America among which the most successful was the Adock variety. This tobacco was cured on racks but the colour obtained fell short of that which is desirable in a good cigarette leaf. Flue curing experiments were conducted at Pusa in Binar during 1920 27, which established the superiority of this process in getting a bright lemon yellow colour from the Adocok variety.

In 1924, at Pusa, Adcock was crossed with Pusa Type 28, which was considered to be the best of the Pusa types for eigarette manu facture and one of the 52 types originally isolated by the Houards A large number of hybrids were raised from this cross and of these, two numbers, H 142 and H 177 have proved to be heavier in predict and equal in quality to Adcock. Under conditions prevailing at Pusa however, any eigarette tobacco grown in the area gives a distinct earthy flavour.

At the Nadiad tobacco farm in the Charotar area, experiments are being conducted in hybridisation and curing eigerette tobacco. The local Gandiu which is a high yielding variety with deficiency in quality, from the point of view of eigerette manufacture was crossed with Adcock and one of the hybrids resulting from this cross is reported to be suitable for the manufacture of lower quality eigerettes. At the agricultural research station at Guntur experiments are being conducted on eigerate tobacco with regard to hybridisation, selection, rotation and the effect of environmental factors on quality and flavour.

For ties on twenty years, the Indian Leaf Tobacco Development (empany has been carrying on experimental research work on organite leaf and advising growers in regard to erop rotations, u treation correct use of fertilisers, etc., particularly in the Guntur 2563

Since 19.6 the Imperial Council of Agricultural Research Las when up a sel me for co-ordinated research in the production of c carette totacco in co-operation with the Imperial Agricultural Resear ; Institute and nine provinces and States. The scheme

> Determination of areas suitable for the production of carette tobacco and

Detailed manurial, curing chemical and breeding ex periments and control of leaf curl disease at the Central Toba co Research Station at Guntur under the control of the Imperial Agricultural Research

Each co-operating province and state has been provided with two flucturing barns (in a few cases with only one) and the cured leaf obtained is subjected to tests by experts. The work at the Guntur station involves the study of the effect of different manureon the cured leaf curing of leaf produced under different manurial and cultural conditions chemical analysis of the leaf at different stages of curing and ageing, and the possibilities of the control of leaf curl disease. It is also intended to take up the work of breeding new types and experiments on the variations in quality of leaf produced on different kinds of soil. The scheme is vet in its early stages of experimentation

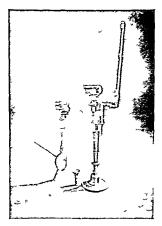
Of all the agricultural crops the raising of a successful tobacco crop particularly for engarette manufacture probably requires the largest amount of still knowledge and experience, and there is at present no chicial source in India from which the producers can obtain expert advice and guidance with regard to the production and manufacture of cigarette tobacco Considering that during the past twelve years the most dominant problem in the tobacco trade of the country is the production of leaf of a quality approaching that which is used in the manufacture of the popular brands of Virginian eigerettes here as well as abroad, it is considered desirable that the service of such an expert officer should be made avail able to the toba to producers. The Imperial Council of Agricultural Research has now teken up this question and is sending three Indian officers abroad for the study of tobacco cultivation, curing and marketing

It may further be suggested that in order to ensure and expand a marret at home and abroad, any scheme for the expansion of the area under cigarette tobacco should be linked un with a system of standardised grades, so that eigarette manufacturers in India and the leaf importing countries overseas, might be certain of a regular supply of a uniform quality. As a preliminary step to this, arrangements may have to be made by the Provincial and State Departments of Agriculture to educate the grower to grow only that









Apparatus to moking / 1 tobacco

The one on the left is an ordinary 1 1 1 used by the poorer people. The tobaccous pri, in the bord on the top and the smoke passe firough water contained in the cocoum, shell at the bordom. The 1/hd on the right is more elaborate and expensive used by middle and upper class smoker. The small object between the two f left is the Chilors an earther to be used for smoking ray tobacco.

variety for which his area is found most suitable. The results of research should indicate the variety or varieties which would be most suited for different areas. It might then be necessary to control the purity of the veriety through the distribution of seed and exercise control over the quality of the crop through advisory and propoganda work and growers' associations and by suitable legislation where necessary, designed to foster the establishment of one variety area.

(2) CIGAR AND CHEROOT TOBACCO

India once possessed a flourishing eigar industry, and Indian eigars in general, have probably been regarded as a cheap, medium, qualiti smoke. On account of the general decline in the popularity of eigars in favour of the eigarette, however, the importance of the industry has now considerably declined.

Some investigations have been eatried out by the Bengal Department of Agriculture at Rangpur (North Bengal) and several imported types were tried for the production of cicar wrappers and fillers. Of these Sumara, Pennsyliania and Manilla Varieties have been found successful.

In countries, where the production of fine eight leaf is successful cultivation is done on large plantations which have revery carefully worked and supervised, even individual plants being attended to At present this type of cultivation appears to be beyond the scope of Indian tobacco growers. The local demand for cigars and cheroots is adequately met with by the manufacturer, established in Madras and Burma and it would probably continue to be advantageous to import the fine quality Sumatia wrapper for the manufacture of superior eights for some time to come. Considering that the demand for cigars and cheroots is on the decline within the country and abroad it appears that research in the production of cigar leaf offers a less promising field than in the production of cigars leaf offers a less promising field than in the production of cigars leaf offers a less promising field than in the production of cigarstic leaf.

(3) INDIGENOUS TYPES OF TOBACCO

The main problem of indigenous tobaccos used for bid hookah, thewing and snuff appears to be improvement in yield and quality howard on these lines is being done for any of these types of tobacco except at the hadia tobacco farm in the Charotar area. Extensive work has done in selection from the local varieties of bid tobacco and three selections G 6 (from Gandhu) P 45 (from Pillu) and P 28 (also from Pillu) which have been isolated are superior in yield if not in quality G 6 has gained considerable popularity since it gives a higher yield can withstand frost and involves less labour in its cultivation. It is reported that about fourth fifths of the area under bid tobacco in Kaira District of Bombay is now under the Gandhu and Pillu selections.

It is suggested that similar research might be undertaken in other areas particularly in Southern Madras Aipani area North Bihar and North Bengal

As already stated in the chapters on Supply and Grading and Standardisation, considerable quantities of Jaffna chewing tobacco are annually imported from Ceylon to Tranancore. In spite of its very high price, thus tobacco has particular attraction for consumers in the Travancore and Cochin areas because of its peculiar taste, though, in physical character it appears to be similar to the Meenam polayam tobacco produced in the Combatore district. A microbiological analysis of these two varieties indicates two distinct formations of colonies of organisms (see plate faeing page 380) and it is possible that the peculiar taste possessed by the Juffac tobacco is the result of the differences in the micro-organisms present in the cured leaf of these two varieties. It is therefore for consideration if the taste of Meenampolayam tobacco cannot be turned into that of Jaffaa by transferring the organisms present in the cured leaf of Jaffaa by transferring the organisms present in the cured leaf of Jaffaa to that of Weenampolayam.

C -Seed

Except in the case of Virginia eigarette tobacco there is no dependable source from where the growers can obtain their seed supplies Even in the case of Virginia the only reliable source is the Indian Leaf Tobacco Development Company Limited operating in the Guntur area. The reputation of this area for a uniform type is almost entirely due to the distribution of seeds and seedlings by this company which maintains at Chirala seedbeds covering about 7) seres "lmost entirel under the Harra in Special variety The seedlings raised from this ire generally given by he company to growers who enter into contract with the company for the delivery of the cured leaf Any excess of seeds and seedlings is supplied by the empany to other parties demanding them. It is understood that iresh seed of Virginia imported from the United States America deteriorates under conditions prevailing in India and that the company has to import fresh supplies of seed every third or fourth year The problems of acclimatising the seed of Virginia tobacco under Indian conditions are therefore extremely important, and it is suggested that experiments might be undertaken in principal cigarette tobacco producing areas 112, Guntur, Mysore and Saharanpur Bulk of the cigarette tobacco growers either raise their own seeds or obtain seeds and seedlings either from their neighbours or the local seed suppliers. Due to natural cross fertili sation and the fact that majority of the growers and local village seed suppliers do not know the scientific methods of raising tobacco seeds the seed supplies available to the bulk of the growers are far from reliable During the course of this survey several exporters and growers from the Guntur area expressed that the quality of the Guntur crop has generally deteriorated during the past five years on account of the use of faulty seeds and seedlings by the growers and that the question of supply of reliable seeds is of utmost import ance to keep up and improve the reputation of Guntur area for the flue-enred leaf One of the items of work taken up by the Indian Tobacco Association is the supply of reliable seeds and seedlings to Virginia tobacco growers about which enquiries are being made

Almost the only variety of Virginia eigarette leaf grown in India is the *Harrison's Special* introduced by the Indian Leaf Tobacco Development Company by the importation of seed from America The word 'Virginian' describes a type and does not mean tobacco leaf grown in Virginia alone. It has no place in the American system of tobacco classification where all eigarette leaf is classed as fine cured The bulk of the fine cured leaf is grown in Carolina and Georgia, smaller quantities being produced in Virginia, Florida, Alabama and Mississippi Enquiries made this year (1938) by the Central Marketing Staff from some of the seed suppliers of the Virginia Bright Belt of the United States, show that the Harrison's Special variety is not at all grown in America to any appreciable extent and that Gold Dollar, Bonanza, Virginia Bright Leaf and Yellow Mammoth are the most common varieties Other varieties of cigarette leaf grown to a smaller extent are Jamaica Wrapper, Cash and White Stem In fact it appears to be difficult even to get the seed of Harrison's Special which is reported by some of the American seed suppliers as too coarse to produce a fine type of eigarette leaf under American conditions One of the Extension Tobacco Specialists of the United States Depart ment of Agriculture who has had some experience of Indian condi tions reports that the Bonanza variety is the nearest approach to the Harrison's Special and that it will be difficult to distinguish these two varieties under field conditions. He further says that Gold Dollar is by far the most popular variety grown in America as it cures more easily than other varieties and produces leaf of a very fine texture and quality, and that it might also suit Indian conditions

It will be therefore desirable to try, under conditions prevail ing in the different eigarette tobacco producing areas of India, at least the seed of the Bonanza and Gold Dollar varieties

Almost all the growers of indigenous varieties of tobacco produce their own seed for raising seedlings. They leave some plants untopped and the pods when mature are collected, dried and stored In Bombay, the usual practice is to allow the ration crop to mature and bear seed. Owing to reasons such as heavy showers just after sowing seed, insect attack, disease, etc., a grower may fall short of seedlings at the time of planting. In such a case he generally procures seedlings from neighbours, friends or relations, usually free Generally the growers are not very particular about the selection of plants for raising seed and thus is possibly due to their belief that the quality of the leaf depends entirely on the nature of soil and cultivation.

It appears that only in the Charotar area, extensive efforts were made by the Bombay Department of Agriculture to distribute the seeds of improved selections G 6 P 45 and P 28 which are reported to cover about four fifths of the bids tobacco area in Kaira district. In Bihar attempts were made to distribute Virginia tobacco eeeds of H 142 H 177, Adoch and Harrison's Special, but without any appreciable results

D -Trade associations

Mention has already been made of the market operators' associations in Nipani Sangh and Jayasingpur These appear to be the only three places in the whole of India and Burma where there exist trade associations organised by merchants in the tobacco trade. The Merchants' League established in 1919 at Nipam has fixed the units of sale, rates of commission other miscellaneous charges and deductions in weight. Rates of discount for immediate payment and interest rates on overdues are also fixed, while the rules of the League stipulate that no member of the League may dead with any person who has not eleared his accounts with another member of the League. The Merchants' Association established in 1933 at Jayingpur also works on similar lines as that at Nipan The rules made by the Sangli Chamber of Commerce stipulate the time of opening and closing of the market place, the order and unit of sales, conditions of sale, commission and other charges, deductions in weight and rates of discount and interest charges.

The Indian Tobacco Association at Guntur to which a refer ence has been made in the chapter on Classification, Grading and Standardisation, concerns itself manily with the introduction of standard grades for cigarette leaf, and the issue of periodical bulletins and leaflets giving information on market intelligence,

cultivation, curing and grading

E -Marketing of tobacco in other countries

(1) PRODUCING COUNTRIES (a) United States of America - About one third of the total quantity of unmanufactured tobacco which enters into national trade is supplied by the United States of America United States trade in unmanufactured tobacco is highly organised Statutory standard grades for all types of tobacco are prescribed All warehouses and warehousemen are licensed and controlled under Regulations for Warehousemen Storing Tobacco' made by the Secretary of Agriculture under authority of the United States Warehouse Act A tobacco inspection, market news and demonstra tion service has been established. The inspection service under takes inspection and certification of the grade on tobacco, before sale at auction markets Packed tobacco is also inspected and the grade certified upon application by interested parties Prior to 1936 a small fee was charged for this service which is now given free to growers During the years 1931 to 1935 108 to 186 million lb of farmers tobacco were sold annually under standard certified grades at auction markets. Under the demonstration ser vice the tobacco growers are acquainted with the objects of the inspection and market news services and how these services can be best used. The market news service consists of issuing daily and weekly price reports prepared from the price data secured at the auction warehouses

The marketing method most extensively followed is the auction underhouse system which prevails throughout the flue cured. Burley, dark air cured and fire cured areas. Before bringing the tobacco to the auction warehouse market, the farmers sort the leaf on the farm according to quality and the it into hands containing 5 to 20 leaves. On receipt at the warehouse the leaf is arranged for sale on flat baskets placed in rows on the floors of the auction sales from Each to re basket is then weighed and a warehouse tocket.

is placed on the lot - The ticket shows the name of the sellers and the number of pounds of tobacco in the lot and may give other information for the purpose of identification. Space is provided on the ticket for the name of the buyer, the grade symbol of the buyer and the price at which the tobacco is sold. It also has space in the upper right hand corner for the United States federal grades m markets where the Government inspection service exists. Imme diately before the auction commences, an official inspector carefully examines the different lots and writes on the ticket in the space pro vided, the federal grade that correctly describes the tobacco in the lot and signs his initial When the auction starts on each lot, the grade of the lot is announced for the information of all parties con cerned The auctioneer, followed by sales recording clerks, passes rapidly from one lot to another The buyers on either side of the row draw out hands of tobacco and inspect them for bidding Sales are made at a rapid speed, usually about 300 lots per hour although sales of 350 to 400 lots per hour are not uncommon Unless the grower refuses to accept the price offered, which he has the privilege of doing, the warehouse renders him the account of the tobacco sold and gives him a cheque for the price realised after deducting market expenses like weighing, warehousing, sampling and selling commission So efficiently are the accounting and dis bursing operations organised that the grower may if he desires obtain payment almost immediately after sale. The requirements of an auction warehouse are ample floor space on a single floor and uniformity of lighting

Another method of marketing is the closed bid auction system followed largely in the case of Maryland tobacco. Under this method the tobacco is first packed in hogsheads on the farms and then consigned to a broker or warehouse. Samples are taken from hogsheads, segred to a broker or warehouse. Samples are taken from hogsheads, selded and displayed by the broker or the commission merchant sealed and sealed bids on the basis of the samples displayed. All the bids are opened at the close of the day and the highest bidder the bids are opened at the close of the day and the highest bidder receives the tobacco. This method of selling prevails only at Baltimore, the sole market for the southern Maryland tobacco.

The method of selling on the farm is predominant in the ciga sobacco producing areas. Travelling buyers either operating as independent dealers or representing tobacco manufacturers visit to the tobacco growers and effect sales. Purchases may be made by the tobacco growers and effect sales. Purchases may be made to the entering into contracts with the growers at some time during the entering into contracts with the growers at some time during the entering into the proving season or by negotiations after the tobacco is harvested and cured. Such transactions may be made at a flat price for all the grades or more commonly, at two prices, one for that portion of the grades or more commonly, at two prices.

Various attempts have been made in America to establish place of the property of the property

a future date when marketing conditions become more favo trable There appear to be only five co operative societies of importance at present in operation The Northern Wisconsin Co operative Tobacco Pool organised in 1922 and operating in a cigar leaf producing area has a little over 1 200 members. This organisation provides iederal grading of all tobacco received from its member growers through co operation with the United States Department of Agricul ture and Wisconsin Department of Farms and Markets packing and warehousing services are rendered by the association which also arranges for the sale of tobacco for its members Producers are paid by pooling the receipts from the sale of each grade for the entire crop each grower receiving the same price for tobacco of a given quality produced within the year Large stocks are held by the association, sometimes for as long as two or three years and a financing plan has been developed whereby cash advances are given to the producers against stocks of tobacco. Three other co operative marketing associations operate in Lentucky and Tennessee, mostly dealing with dark fired tobaccos The Maryland Tobacco Growers' Association organised in 1907 and having a membership of more than 5 000 growers functions substantially as co operative brokerage agency on the Baltimore market Some of these co operative asso ciations have helped to maintain prices in the open competitive markets but where they have resulted in holding up supplies for a prolonged period they have either tailed or only achieved partial Where serious failures have resulted they have usually been due to several causes of which three are important tir (1) all tarmers not joining the movement the buyers were able to satisfy much of their requirements outside the co operative pool so that the tool was left with large unsold stocks at the end of the season (11) no agreement could be reached among the growers to limit cultivation sufficiently for the following crop to prevent competition between the new crop and the stock left over from the previous year and at times stocks had to be carried by the pools for a period of even three years and (in) a point came at which banks declined to finance the stock with the result that the co operative pools were forced to sell at the best prices obtainable

The important tobacco markets particularly in Virginia have organised tobacco boards of trade for the purposes of encourag ing promoting and regulating sales and trade in leaf tobacco members of this board of trade are usually the operators of the auction warehouses and the buyers on the market These tobacco boards appoint their own officers from among their members who are empowered to enforce proper observance of all rules regulations and bye laws and to punish offenders by such fines or penalties as majority of members may determine to impose These boards cus tomarily regulate the sales rapidity of sales the time at which the sales are to start and stop the time when payment for tobacco shall be made by buyers the inspection and weighing of trucks of tobacco and the filling in of weekly and monthly reports giving the number of pounds of tobacco sold by each warehouse and the average price received They also impose fines on the members found guilty of breaking the rules prohibit the purchase of tobacco by any one not a

member of the board of trade and assist planters in settling disputes which may arise between them and the members of the board of trade The tobacco boards of trade have rendered valuable ser vice by bringing the buyers and warehousemen closer together respect of sales, settling of disputes and building up of markets, though the tobacco growers have not yet been represented on them

Between 1927 and 1930, the production of tobacco in the United States increased by over 36 per cent without a corresponding rise in the domestic and foreign demand. In consequence there was a continuous decline in price and rise in stocks. These difficulties were, however, not confined to tobacco growers alone and with a view to help farmers the Agricultural Adjustment Act was passed in May 1933 The main object of this Act was to secure a rise in prices of farm products and thus restore the purchasing power of the farmer So far as tobacco was concerned, a programme was drawn up under the provision of the Act to obtain reduction in accumulated stocks by restricting current and future crops. The full plan involved definite contracts with growers and the offer of certain rental and other payments to them in consideration of their reducing production in 1934 and 1935 Funds for this purpose were provided by ' processing tax " imposed with effect from 1st October 1933 at the rate of 42 cents per lb (farm sales weight) Prices were not slow to respond to the action taken In 1932 the average farm price was 105 cents per lb, which in 1934 rose to 213 cents per lb In Janu ary 1936, however, the Supreme Court declared the processing taxes and contracts with growers as unconstitutional Immediately after this ruling the Soil Conservation Act was amended to farmers and to give them practically the same privileges as were intended to be given under the Agricultural Adjustment Act ments to growers under the soil conservation programmes were smaller than under the Agricultural Adjustment Act

The new Agricultural Adjustment Act of 1938 provides for continuing the soil conservation programmes and makes provisions to stabilise supplies of five major commodities cotton, wheat corn tobacco and rice The act aims at certain supply levels for the five commodities These levels are established in fixed percentages above normal supply, and in most cases are the sum of normal domestic and export requirements due arrangements being made for carry overs As a result of experience gained since 1933 when the first Agricultural Adjustment Act was passed attempts are now being made to maintain an economic balance between production consump tion and demand under the provisions of the new Agricultural Adjustment Act and soil conservation programmes

(b) Canada —Bulk of the commercial production of tobacco in Canada is located in Ontario and Quebec The most common method of market. of marketing is what is known as the barn buying system. In addition a small portion of the crop is sold after being graded and Packed Under the barn buying system the buyers maintain a staff of falls. of fieldmen who inspect the crop in the field while curing and after being piled When the market opens the buyer visits the farm and offers as offers an average price per pound for the crop If the offer is accept-LIICAR

able, the grower signs a contract with the buyer and awaits instructions as to stripping and delivery of the crop Payment is made on the basis of weight when delivered at the packing house. This barnbuying system is considered by some as unsatisfactory, yet both the producers and domestic buyers appear loath to abandon it. Most of the dark tobaccos are grown under contract with the buyers in Quebec, part of the crop is marketed through co-operative associations.

Mark-ving of flue-cured leaf in Ontario is under the control of a marketing association, the membership of which is made up of producers and buyers. Each year, before buying commences, all crops are appraised as to their relative value. A joint committee upon which producers and buyers have equal representation then negotiates a minimum average price for the entire crop, and fixes a date for the commencement of buying operations. Actual purchases of individual crops are not controlled except that the buying companies, all of which are licensed by the association, must purchase only from hierarchy of acreage control is associated with the scheme. The Burley crop is marketed under a similar plan

(c) Southern Rhodesia - The system of marketing adopted in Southern Rhodesia has changed from time to time and the methods have included sale by auction private treaty, sealed tender and contract In 1910, the auction system was introduced because sales by private treaty had given disappointing results. Due to a disagreement between sellers and buyers auction sales were subse quently discontinued in 1914. After the failure of the auction system the Rhodesian Tobacco Copperative Society was registered to undertake the warehousing and marketing of tobacco 1918 this society marketed tobacco under contract with two leading manufacturing firms in the Union of South Africa. In 1923 the society was placed in voluntary liquidation and its assets and liabi lities were taken over by the Rhodesian Tobacco Warehouse and Export Co, Ltd The new company was composed of members of the old society and conducted its business more or less on the same lines In 1926 this company exported a fairly large quantity of tobacco to the United Kingdom and in 1927 allowed their own con tract with the South African buvers to lapse It instituted sales locally by sealed tender and later by private treaty In 1928 the auction system was reintroduced but discontinued almost immediately The method of marketing of Southern Rhodesian Tobacco into the Union of South Africa was subject to alterations in 1930 and the latter country imposed an import duty on tobacco in excess of a quota of 2 million lb of Virginian and 4 million lb of Turkish tobacco which was allowed duty free The Southern Rhodesian Tobacco Board was formed to administer this quota

The Tobacco Marketing Act, 1936 of Southern Rhodesia which has been recently put into operation, vests the Minister of Agrical ture and Lands with extensive powers to regulate the sale and export of tobacco. The Minister's powers are exercised by a board which consists of art members representing the public service, the growers

and the buyers. All buyers of tobacco are required to get licenses from the board which are valid for one year. The board also graits one year heenses to such premises as it may deem suitable for the sale of tobacco by auction. The board may from time to time fix a suffi for weighing, selling and commission charges. No tobacco is reprinted to be sold or bartered within the colony in any other permitted to be sold or bartered within the colony in any other wanner than by auction on licensed auction floors, nor can any tobacco which is not tobacco as defined for the purposes of the Act be offered for sale on any heensed auction floor except with the permission of the board. Besides, no person is allowed to use for the purposes of manufacture or for sale any tobacco produced in Southern Rhodesia unless purchased on licensed auction floors.

Every year, each registered grower was to be allowed his salesquota in the tobacco requirements of the local and protected markets for the season. No person was to be allowed to export any tobacco from the colony except under the permission issued under the authority of the Minister. The board has powers with the approval of the Minister to require growers, licensed auction floor owners and buyers, to supply such information as it may require regarding their operations. The auction system proved acceptable but the allocation to individuals of the quantity which they might produce and might sell gave rise to dissastisfaction. An amending act of 1937 abolished all restrictions on the quantity of tobacco the grower might sell

- (d) Union of South Africa —In South Africa, growers are organisations There is an addressed into producers' co-operative organisations. element of compulsion in the South African co operative movement When three-fourths of the producers in any area producing together at least three fourths of any specified agricultural produce, are members of a co-operative society, then that society can, accordance with the Co operative Society Act, move the Government to order, that all producers in that area, whether members of society or not, must deliver their crop to and sell through the society The co-operative societies generally own tobacco is received, graded and baled The bales are handled individually and the owners of respective bales are debited with the cost of handling Tobacco is sold according to grades All the co-operative societies are associated in the Central Co-operative Tobacco Company which regulates prices at which leaf may be sold to local manufac turers and controls selling of the whole of the surplus stocks of the members, available for export Thus a practice of centralised selling, combined with that of giving the farmer at the time of deli very of his crop, an advance based on its anticipated market value, has been established An Act of 1935 set up a Control Board as the man administrative body to carry out any regulations that might be laid down by the Munister of Agriculture, which may include grading and standardisation, prohibition of manufacture or sale of crading and standardisation, prohibition of manufacture considered to tobacco helow a manufacture. tobacco below a specified quality and other regulations considered to prove beneficial to the industry generally
 - (e) Ayasaland —Following the example of Southern Rhodesia, the Nyasaland Protectorate has now adopted a system of state con irol for the marketing of tobacco under the Tobacco Marketing

Ordinance enacted in December 1937. For the present, this Ordinance applies only to flue cured tobacco. Provision has been made to set up a Tobacco Control Board consisting of officials and non officials selected from among the growers buyers and exporters. The Board is empowered to register growers, hence buyers and auction floors control the procedure on the auction floors, fix the maximum charges for weighing and selling on the auction floors and even to determine the minimum selling prices. The Board has also got power to establish and control a tobacco pool to which every grover to contribute all his tobacco that is not required for the local market or for export under permit or is not sold on an auction floor.

No grower is allowed to produce flue cured tobacco unless registered with the Board in accordance with the provisions of Tobacco Uarketing Ordinance Flue cured tobacco and any other type to which the Ordin ince may be applied by notification, can be only sold by auction on a licensed auction floor. No person is allowed to purchase tobacco unless duly licensed. Growers are permitted to retain a certain percentage of produce for home consumption while the export is restricted by quota certificates and export permits.

(f) Japan -A tobacco monopoly law is in operation in Japan In July 1904 a revised tobacco law was enacted which extended the monopoly control over manufacture and sales Privately owned factories were taken over by the Government, additional factories constructed and the entire industry managed by the monopoly Sales by the monopoly were made to licensed wholesalers who in turn sold to licensed retailers. In 1931 the wholesale system was abolished and the monopoly established its own organisation delivering tobacco directly from the monopoly licensed retailers At present the monopoly has complete control over all aspects of the tobacco industry from the time the seeds are planted until the finished goods reach the consumers. The cultiva tion of tobacco is permitted only to licensed growers and controlled by the monopoly The monopoly guarantees a per acre return on tobacco for each grower All operations in the cultivation of tobacco are regulated and the methods of harvesting and curing are laid down After curing the tobacco leaf must be carefully graded and tied into hands in a prescribed manner even the material that may be used for wrapping and tving the bundles is prescribed Tobacco inspectors are employed to see that all the monopoly rules and relations are carried out The farmers' crop can only be sold to the monopoly If any grower fails to follow the specified instruction his license is liable to be cancelled. If his tobacco leaf is not graded and packed according to the monopoly regulations it is not purchased until it is properly graded and packed After the tobacco leaf reaches the monopoly it remains in its possession until sold in the form of retail tobacco products or exported as leaf Re-drying storing manufacture sale to retailers and export are all carried out by the monopoly

Japanese tobacco monopoly has no purchasing organisation in India and prefers to leave the exports of Indian tobacco to Japan to commercial interests Consequently the monopoly has no representative to check consignments before despatch to Japan Their purchases are made in Japan and not in India, and consequently, the exporter from India has every chance of getting his consign ment rejected and returned to India, though such occasions are extremely few Before ascertaining the annual requirements foreign tobacco the monopoly estimates the production within the country and related territories and then submits its own estimates of requirements The funds required are afterwards sanctioned and the monopoly is then in a position to notify about the end of September every year explained in Chapter X, the country (Natu) eigarette tobacco exported from India to Japan becomes ready for the market in April and May so that the exporters from Guntur (Madras) have to purchase leaf from the growers during these months in the hope of getting orders in September and October which is a matter of chance It is apparent that it is exceedingly difficult to depend on the Japanese demand for the extension of cultivation of country eigarette tobacco in India In fact, the area under this type of tobacco is largely declining in preference to the flue cured eigarette tobacco, due to the uncertainty of the Japanese demands but more particularly owing to the better prices realized for the Virginia leaf

(2) Consuming countries.

The strongest current of international export trade in unmanufactured tobacco is towards Europe and hence the countries in Europe are the most important consumers of tobacco. From the noint of view of control over the tobacco industry to the European countries may be divided into three classes consistent of the countries where all countries where all countries where only some phases of the industry are controlled countries where only some phases of the industry are controlled countries where only some phases of the industry are controlled countries where only some phases of the industry are controlled countries who is a measure, and (iii) non monopoly countries who less import duties and exists taxes.

The non monopoly countries are the United Kingdom Nether lands, Finland, Norway, Denmark, Greece, Belgium In Germany, Portugal and the Baltic States there are no actual monopolies but certain phases of the industry are subpected to Government or other regulations of monopolistic nature. The monopoly countries are France Italy Sweden Spain Austria, Hungary, Czechoslovakia Poland Rumania Bulgaria Yugoslavia,
Turkov o Zasta or Gov Turkey and the U S S R All these countries have State or Gov ernment monopolies except in Spain and Sweden where monopolies are routed are rented or conceded to some private company under certain con ditions ditions. The monopoly determines the area to be planted and the quantity to be marketed The tobacco leaf is delivered to the monopoly which fixes the growers' prices Where State monopolies exist the Gazantee the growers' prices the Government usually buys the whole crop and exports the surplus if any Generally the factories are owned by Government and manufactured by the factories are owned by the factories are owned by the manufactured by the factories are owned by the fact manufactured products are sold by retailers at prices fixed by the State

(o) l nied Kingdom.—The United Kingdom is the world's largest nigle importer of unmanufactured tobacco which is imported in two ways (s) between 70 to 80 per cent of the imported laft is purchased in the country of production by one of the world's largest tobacco combines the Imperial Tobacco Co (of Great Brid's naid Ireland), Ltd on behalf of its constituents, and (ii) the remainder of the imports passes through the hands of merchants brokers and dealers before reaching the manufacturer

The Imperial Tobacco Co (of Great Britain and Ireland) holds dominant position controlling about three fourths to four fifths of the tobacco industry in Britain This company was formed in 1901 to resist an attempt then made on Britain's tobacco industry by a powerful association of American manufacturers It took over the business of several firms from time to time and now controls the activities of over a dozen and a half firms. The constituent firms retain their entities within the combination but in the matter of The company's purchase of leaf the company acts as a single unit activities now embrace all the branches of the industry such as supply of seed and seedlings buying and grading the leaf accordance with the requirements of constituent firms, re-diying packing transport warehousing manufacture and distribution to wholesalers and retailers The only branches not yet covered by the company are actual growing of tobacco and selling to consumers The company has got its own factories reconditioning plants and warehouses in various countries including India

The manufacturing firms who have not joined the Imperial Tobacco Co purchase their supplies for the most part in the United Kingdom On arrival in the United Kingdom the tobacco pack ages are removed from the ships side to the bonded warehouse under Customs supervision and it is usual to have the weighed there as soon as possible after receipt The Customs regula tions require that all importations of tobacco should be weighed net within a specified period after the date of receipt in the bonded ware-The Customs officials are very particular about the weight as import duty is collected on the basis of net weight of tobacco 4 lb sample is taken from each package hogshead or bale by experi enced warehouse officials at the time of inspection and weighing and all sales are conducted on the basis of these samples Sale by inspec tion and sample is therefore the rule and no business is conducted on the basis of standard description of type and quality. The trade appears to be satisfied with this method the general view being that requirements of manufacturers vary to such an extent as to make it necessars for each manufacturer to see the actual sample before buy It is however of utmost importance that all leaf in a package should conform to the sample and be as uniform as possible in the consignment offered for sale. It is in this respect that the imported from America and also recently from Canada and Rhodesia has succeeded in establishing a good reputation among manufac It is also in this respect that complaints about Indian tobacco are most common and in consequence the general price level Indian tobaccos in the Figlish market has been up to now lower

than that of tobacco imported from other countries. The main defect with the Indian leaf hitherto has been that unlike other countries such as United States of America Canada and Rhodesia there were such as United States of America Canada and Rhodesia there were no standard grades for Indian tobaccos and the quality of consign neat offered or sale in the English market was so uncertain that the interpretal was quoted a much lower price for Indian leaf to safeguard bursel awars quoted a much lower price for Indian leaf shafed. The himself against the risk of had leaf being mixed in the package. The special quality of the leaf produced in India during recent vears has general quality of the leaf produced in India during recent vears has and if the standard grades are more fully adopted there is no reason why Indian leaf should not win the confidence of British manufactures. Buyers must however give some encouragement to sellers turners. Buyers must however give some encouragement to sellers by purchasing on the basis of the standard grades and by quoting differential prices for the different grades instead of a flat rate as at present.

Large manufacturing interests in the United Kingdom obtain their supplies of Indian leaf chiefly from or through the Indian Leaf Tobacco Development Co. Ltd. Indian Most of the remaining portion of the Indian leaf as it reaches the United Kingdom market is shipped not by growers but by Indian exporters on consignment basis to be sold through London or Liverpool brokers and leaf merchants

All tobaccos are sold privately and the trade is not organised in the same way as for many other commodities. There are no recognised auction sales nor are there regular exchanges futures markets or standard forms of contract. The tobacco section of the London Chamber of Commerce does not control any selling organisa toon its main function bung to discuss matters of general interest tion its main function bung to discuss matters of general interest tion its main function bung to discuss matters of general interest tion its main function bung to discuss matters of general interest to the discussion of the sale of the sale is effected a delivery order is like duttes laws etc. After the sale is effected a delivery order is makes his own arrangements for removing from the bonded ware house as and when he requires tobacco after the payment of import duty.

It is claimed that in the absence of a regular exchange or auction sales sale of goods immediately on arrival in the United Kingdom is not possible. To effect a sale therefore by private negotiations it takes some time which may range from a few weeks to even a year takes some time which may range from a few weeks to even a year depending on the keenness of demand for the type of tobacco offered

for sale

(b) France—The tobacco industry in France is controlled by the controlled by the controlled which was first established in 1730

The monopoly which was first established in 1730

The monopoly as been in continuous operation since then except for a break of has been in continuous operation since then except for a break of twenty vers from 1791 to 1811

The main object at the back of this carry organisation was to increase the revenue of the Government, early organisation was to increase the revenue of the monopoly This idea was enlarged in 1926 since when the income of the monopoly has been used for the amortisation of the public debt

(c) Germany—There are several Government restrictions and regulations though the tobacco industry in Germany is non-nally baniled by private companies

Restrictions regarding packing and

warehousing and numerous taxation laws are reported to have greatly burdened the industry in recent years. Imports of leaf are governed by the new German import control laws. These laws allowed some latitude on the exchange requirements to buy tobacco. leaf until September 1934 when tobacco was placed under a supervisory and control board and from the standpoint of importation it became a controlled commodity. Tobacco production is under Government regulation and eigarette and smoking tobacco industries are under cartel organisation for the past several years.

- (d) Italy—A Government monopoly controls the production, warehousing manufacture and distribution of tobacco and tobacco products in Italy. All the leaf tobacco is inspected and that not coming up to the standards is destroyed. Cultivation of tobacco is permitted only to authorised growers.
- (c) Spain —The tobacco industry in Spain is controlled by a monopoly conceded since 1930 to a company which receives a stipu lated percentage of net profits for its services

FINAL INTER CHAPTER

SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

The annual value of the tobacco crop grown in India is somewhere about 18 or 20 crores of rupees If manu factured tobacco products are included the total value is probably nearer 40 or 50 crores The export trade alone is worth about 1 croie of rupees a year It will be appreciated, therefore, that a small percentage of im provement in price returns owing to better marketing would mean a considerable addition to the cash income of producers

Importance of quality

The general trend of prices indicates that good quality tobaccos are rising in price but the price of second rate tobacco is steadily fuling Exports of good quality tobacco are increasing, those of low quality decreasing Imports of good quality eigarette and chewing tobaccos 1emain high and can only be displaced by the production of equally good quality in this country At every turn quality is the most outstanding factor of importance in the marketing of tobacco High quality not only re sults in higher prices for producers but ensures a wider market for Indian tobacco both in this country and abroad

Control of quality

So far as tobacco is concerned, ordinary competitive forces are not enough to ensure the production of the night quality In most cases the grower does not know to what use his tobacco will eventually be put

The respective quality factors of cigarette, cheroot, cigar, bidi hookah and chewing tobaccos are entirely distinct and are not known to the producer The problem of improving the quality of Indian tobacco cannot, therefore, be left to individual growers. If the general level of quality is to be raised and maintained it can only be done by organised direction and control

A step in this direction has been taken by the organisation of the Indian Tobacco Association, which amongst other things seeks to educate the grower in the production of the right quality of eigarette leaf. Voluntary efforts of this kind, however, appear to have their initiations both in regard to the time taken to attain their objective and as regards the area covered. It is a question whether the provincial and State governments, particularly those covering the five main producing areas, should not take immediate steps to secure more direct control over the quality of tobacco produced in their area.

Improved seed and seedlings

Unless special precautions are taken to prevent cross fertilisation, the quality of any particular variety of tobacco deteriorates distinctly in a very short time. This is specially true of good quality Virginia cigarette leaf, and in this case it is customary for fresh supplies of pure seed to be regularly imported from the United States of America.

Some attempt is being made by provincial and State Governments to propagate pure seed on Government farms for subsequent distribution to growers. Mysore State has probably been most successful in these operations with regard to Virgima Cigarette tobacco but much more needs to be done by the appropriate departments of maintain the purity of the seed and to organize its distribution or the distribution of seedlings to all grow cis in their areas. This may be done either direct by the Agricultural Departments or through co-operative or trade associations, but the problem is urgent.

Better harvesting and curing methods.

Little progress has been made in recent years in the methods employed in preparing tobacco for the market. In spite of the number of flue-curing barns having multiplied considerably, the methods employed remain much the same although it would appear that the existing methods are susceptible of much improvement and the time of curing capable of being reduced considerably. The Imperial Council of Agricultural Research has established a number of experimental flue-curing barns throughout the country but much more needs to be done to speed up-the practical application of the research work.

Apart from the fact that operators of curing barns are not fully informed as to the best technique of curing, many of them deliberately dry tobacco which they know is not suitable or fit for export or manufacturing purposes. Owners of redrying plants to some extent follow similar practices and process leaf which is altogether too low in quality.

It is a question whether steps should not be taken, amongst other things, to license curing barns and redrying plants and exercise some control over their operations, so as to ensure, for example, that they handle only leaf of approved types and of a quality suitable for the purpose for which it is intended.

Standard grades and methods of packing.

A great deal of harm is done to the reputation of Indian tobacco by putting on the market low quality produce which purports to be high grade. Defective leaf of poor quality is cured and packed mixed along with good quality leaf in such a way as to lead to unfair competition and to disappointment on the part of buyers. Further, owing to the absence of any clearly defined grades of quality the comparison of price quotations becomes impossible and opens the way to malpractices

It seems essential, if the quality of Indian tobaccos is to be improved and maintained, that buyers and sellers, from the growers onwards, should be induced—or compelled—to adopt standard grades and methods of packing

So far as eighteet tobacco is concerned AGMARK grades for Viigina and country leaf, both flue cured and sun cured, have been prescribed under the Agricultural Produce (Grading and Marking) Act, and the Indian Tobacco Association at Guntur have made themselves responsible for preparing seasonal standard samples of the various grades which are sent to the High Commissioner for India, London, for exhibition and distribution to the trade in England and other countries

Many of the exporters have adopted the AGMARK system of grading and marking their goods but more needs to be done to ensure the wider adoption and more general use of the prescribed grades. It would appear that the practical adoption of such grades might be ensured through a system of hecensing buyers and cui ing bains already referred to, and by the exercise of some control over exports on the basis of standard grades, particularly so far as tobacco dispatched for sale on consumment abroad is concerned

Establishment of regulated markets and auction floors

From the report it is clear that there is an almost complete absence of tobacco markets having a central and convenient place where the growers can assemble their produce for sale as is customary in the case say of cotton or wheat. The establishment of regulated markets at suitable centres, particularly in the five main tobacco producing areas is, therefore, a matter for consi-

deration by the authorities in those areas. In establishing such markets it would be desirable that the system of sale by open auction on the floor of the market should be introduced and that growers should be induced to sort out their leaf and offer their tobacco for sale on the basis of standard grades. This in itself would act as a strong force in educating growers to improve the quality of their leaf since they would be able to compare at once their prices with those obtained by other growers who had adopted better irethods.

The establishment of regulated markets for tobacco would make it possible to introduce a proper market news service with regard to supplies and prices for the 1 torn ation of buyers and sellers. It would also be possible in such cases to reduce the amount of market charges which are at present scandalously high in some parts.

I proved price returns

At present the grower gets only about 40 per cent of the piece realised for his Virginia eigarette leaf sold in the United Kingdom, and only about 30 or 35 per cent of the price secured for sun cured country tobacco. It sevident, therefore, that there is considerable room for improving the price returns to growers by reducing the costs of distribution. Attention may be drawn here to a few of the leading points at which some reduction in distribution costs is possible.

Storage losses for example on account of damage by insects alone are estimated at about Rs 10 likks per annum Some use has already been made in this country of cool storage in warehouses where the temperature and humidity can be controlled but much more needs to be done in this direction. The provision of suitable safe warehouse accommodation in the main producing areas

would make it possible for lenders to advance money on tobacco with safety. At present the joint stock banks do very little business of this kind, and the amount of business done by the shioffs is also very small. At least one successful attempt on co operative lines has been made and the lesson is worthy of study by co-operative departments in other areas.

The numerous and often meomprehensible systems of weights provide much scope for exploiting illiterate produces and stand in the way of the development of trade and market news service. Immediate action is, therefore, needed to adopt standard weights applicable to the whole country. The types of scales used in the wholesale and retail trade also require urgent attention.

The incidence of oction duties levied by certain municipalities is so heavy as to lead to the diversion of trade and higher costs of distribution. Market charges, particularly in kind, and in the form of weight deductions are, as a rule very high and their regulation is called for it is observed that the incidence of railway freight on raw and manufactured tobacco is relatively much higher than on the more valuable manufactured products, and it is for consideration whether some readjustment is not possible

Although the seasonal fluctuation in the pieces of documents of different kinds seems very high, tobacco does not appear to suffer in the same way as other crops from a depression at harvest time. The reverse seems to be the case since prices are at their best immediately after narvest. This is largely owing to the fact that the quality of the earlier pickings is better than that of the late. Buyers are anxious to take delivery as soon as possible after harvest and any proposal to introduce cooperative marketing on the part of the growers would have to take into account the danger of holding back the

erop unless at the same time very effective steps were taken to ensure that the storage was of such a character that the quality improved rather than deteriorated. In general, if the tobacco is properly stored there should, in fact, be an improvement rather than a deterioration of quality up to a period of about two years

In regard to prices generally the importance of stabilisation needs to be emphasised. In view of the fact that manufacturers of high quality products such as eigareties and eigars, as a rule, hold about two years' stocks in hand their requirements are fairly regular and steady. Any large variation in the amount of supplies plessed on the market by growers, is therefore liable to result in very much reduced prices. The presence of a relatively small quantity of unsold tobacco floating round the market has a very depressing effect on prices as the season advances. It would appear desirable therefore that every inducement should be given to buyers to enter into contracts with growers at the time of planting in order to ensure a ready market for all the growers' produce at harvest time

Improved distribution of tobacco products

The use of certam constituents for flavouring some of the products is admissible, but hookah tobacco is commonly adulterated with and, earth, cotton waste and wher undesirable things. Chewing and hidi tobaccos are also subject to adulteration. Some steps are necessary to put a stop to the grosser forms of adulteration. It would not seem possible to deal with this entirely by defining standard grades for say, hookah and chewing tobaccos as the practice is much too widespread. The use of the Agricultural Produce (Grading and Marking). Act in connection with those products would, however, upparently be of value to manufacturers in so far as

many consumers of chewing tobacco, for example, pre fer to use pure leaf lather than the manufactured article of unknown composition. The question of standardising and marking the better qualities is, therefore, a matter for consideration by the trade

Trade marks and other distinguishing marks are freely copied and the widespread misuse of trade marks is an abuse culling for legal remedy

Apart from these defects in the trade it is apparently common for manufacturers to resort to all kinds of devices—some of a questionable nature—to induce distributors to stock and sell their particular products. There is room for the further expansion of the industrial manufacture of tobacco products in this country, but in order to ensure its development on sound lines it would seem desirable that there should be more consultation among manufacturers with a view to regulating the distribution of their products on a sound basis.

Certain provincial and State governments have adopted a system of charging licence fees from all tobacco traders and the majority of Indian States levy import and export duties, or have a system of auctioning out the rights to trade in tobacco and its products Municipali ties also in many cases levy heavy octroi duties on the trade. The effect of such restrictions and regulations has, in some cases, resulted in driving out the industry and it seems necessary to draw attention to the danger of such local restrictions which are designed solely for revenue purposes If, however, a licencing system for example, is combined with steps designed to control and improve the trade, particularly as regards quality, the system would appear to be advantageous to the industry rather than otherwise This would be the case more especially if an equitable system of control on an all India basis could be arrived at

Need tor closer study of local problems

Each of the main producing areas has its own plob lems distinct from those in other areas. In the Guntur district of Madias, for example, the main problem is to ensure the production of high grade flue cured Virginia cigarette lear, particularly to meet the important export market, mainly the United Kingdom, which has rapidly expanded in recent years. This calls for strict quality control and involves the organised distribution of pure ceed and seedlings, the establishment of regulated markets (auction floors), the adoption of standard grades by producers and others the licensing of flue curing barns and redrying plants, and the fostering of organised voluntary efforts on the part of trade or co operative associations.

In Bengal one of the main problems arises out of the fact that the export trade to foreign countries in cigal and cheloot leaf has been steadily falling off and there appears, therefore, a need to divert production on to other more suitable types. The question of standard grading and marking of some of the well known types of Bengal cheroot and hookah tobaccos seems also worth considering

In Bihai the demand for local leaf for eigarette purposes has been falling off and it is a question whether steps should not be taken to expand the market for Bihar chewing tobacco through systematic grading and marking this process might be assisted by the establishment of regulated markets

In Mysore, the State has made remarkable progress in expanding the area and improving the quality of local cigarette leaf, but much remains to be done and more effective control could probably be established through the licensing of flue cuiling barns In the Charotar and Nipam areas which concentrate largely on the production of bidi leaf, the establishment of regulated markets is called for and the possibility of grading and marking the better qualities of bidi mixtures requires investigation.

Improvement of official statistics

The two species of tobacco viz, Nicotiana Tabacum and Nicotiana. Rusti i are very di tinct and the final product is put to entirely different u.c. but no attempt has so far been made to differentiate between the two species in official statistics. It is important that thus should be done particularly on account of the fact that the wold trade and the set of this country consists almost solely of Nicotiana Tabacum. Particulars regarding the production and supply of this type are therefore important not only for producers and others in this country but also for buyers abroad.

The two botanical species are capable of further subdivision into commercial type according to the purpose for which they are to be used viz, cigarette, cigar cheroot bidi chewing and hoolah, and in regard to cigarette leaf a further sub-division of production estimates and forecasts is required into flue cured and suncured Viiginia and country (Vata) respectively

Until the estimated production and supplies at classified on the lines indicated and until prices arquoted on the basis of those particular types, official statistics will continue to have little or no commercial value

APPENDICES.

Area under lobacco in the principal countries of the world APPENDIX I

		İ										
	1925 26 to 19_9 30 Average	6-019-9 nge						1930 31 to 1 35 Average	1930 31 to 1934 35 Average			
	Area	Por cent	18 0861	28 IE6I	££ 2561	16 5561	1934 32	4704	ler rent	1832 36	1836 37	
Empire countries							Γ					
Indus (meduding Burms)	1 347	2	1 408	1 435	1,399	1,375	1 563	1 436	8	1 535	1,497	
Canada	33	0 0	7	120	ž	41	7	48	80	Ş	12	3
Southern Rhodess	ક્ષ	0.5	16	ę	ř	4	#	S	9	3	7	86
Nyasaland	9	0.7	48	49	33	#	38	9		5	. 2	
Union of S Africa	8	0.0	<u>e</u>	ē	(E)	ಪ	3	(b) 27		2	3	
Australia	61	0 03	es	18	56	51	o.		,	=	:	
Northern Rhodesia	(8)		61	6	e)	69	es	C1	2 0	. "	:	
New Zeeland	_	0 03	-	¢1	61	61	_	ei	8		3	
Foreign countries			_						3	•	ì	
USA	1,757	9 6	2,112	2,000	1,409	1,733	1.279	1.707	6	727	7.00	
Notherland If Indies	400	8.4	513	819	479	5	រូវ	200		02	419	
USSR	1318	5	234	407	610	468	468	199		487	201	

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Production of tobacco in the grancipal countries of the world APPENDIX II.

					38	8								
		16-9661		1,375	Ş	8	8	2	×	-	. 9	Ē	1.165	800
		1932-38		1,449	12	60	2	91	•		_	•	1,207	381
	1930 11 to 1931 35 Average	Per cent		28.3	0 0	6			0	0 02	0 03		27 5	. 2
	1930 11 35 Ave	Pro tue tion		1,378	45	12	22	7	0	-			1,340	341
		1834-32		1,518	8	1	91	23	~	e	-		1,082	370
		76-8861		1,251	ş	5	14	10	4	64	_	_	1 300	330
_		1932-33		1,393	19	14	0	Ę	01	-	61	•	1,023	340
(Million lb.)		26-1561		1 359	61	15	57	នួ	01	-	-		1 584	373
5		183031		1,337	37	6	-	22	61	-	-		1,017	282
	1925 26 to 1929 30 Average	Per		7 17	0 7	0.3	60	61	10 0		0 03		27.8	8.0
	1925 26 to 19 30 Average	Pro lue tion		1,370	88	18	2	22	es	3	-		1,357	315
			Empire countries	luding Burma)		พล	Africa			ela		Foreign countries		:
			N.	luding		Rhodeen	South Africa	-		Rhodesia	pur	Fore	:	: .:

Indla (including Burma)

Canada

Union of South Africa Southern Rhodeen

Nyasaland Australia Northern Rhodesia

New Yealand

U.S.S.R.

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	650		828	0 008	0 001	<u>(</u>	S	3	3	€	Worl I total (including China)
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523	497	9 6	477	417	435	405	480	623	101	100	Rest of the countries of the world (excluding
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1	3	0	93	13	g	100	96	102	- 1	-601	Furkey
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04	90,		_	-	3	407	184	187	3.8	180	
100	116	61	155	115	193	100			 N	72	Janan
72	149	3 0	145	140	147	134	161	143		908	Braeil
102	213	4	210	220	222	204	220	416			

Tigares extracts I from it o publications of the Loogue of Nations and the Imperial I cono me Comit 2021, invania extracted from Appendix V (9) Tigares not yet wratable

APPENDIA III

Imporist of unmanufactured tobacco unto the principal importing countries of the world [Million Ib]

	_	Larmi	on to j					
	1930	1931	1932	1933	1934	Average 1930 34	1935	1936
Empire countries						7	Г	1
United Kingdom	237	194	175	211	239	211	252	271
Australia(a)	20	22	15	15	12	17	17	20
Eire	12	n	7	5	19	11	11	15
Canada	17	14	10	10	9	12	7	3
British Malaya	8	6	4	3	3	5	3	2
Foreign countries								
Germany	233	154	162	174	190	183	192	192
U S A (b)	104	95	68	73	77	83	85	90
France	155	111	106	86	61	104	75	66
Netherlands	70	74	71	77	65	71	61	62
Spain	57	65	88	63	40	63	61	(c)
Belgium	49	50	49	44	44	47	44	41
Czechoslovakja	22	23	22	30	10	21	25	20
Poland	39	20	15	19	16	22	18	14
Chma	129	168	83	56	66	100	18	25
Total	1,152	1 007	875	866	851	950	869	821

⁽a) Years ending June 1930 (b) Imports for home consumption (c) Rigures not yet available (18ce "Plastation Crops" Imperial Economic Committee I ondon, 1937)

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APPENDIX III-concld

Exports of unmanufactured tobacco from the principal exporting countries of the world
[Million lb]

1930	1931	19	32	193	13	1934	Average 1930 34	1935	1936
		\vdash			-				
29	25		22		28	27	26	27	29
7	8		13		12	21	12	18	18
13	11		15		10	13	12	10	13
5	,		11		14	9	9	8	10
1	,		1		1	1	1	1	1
580	52	1	411		439	441	479	396	4 9
108	9	15	78	3	77	82	88	111	88
177	1 18	34	16	1	108	94	145	108	10
8	4 8	85	6-	4	43	67	69	72	63
1	9	54	4	5	50	46	49	54	44
١,	2	49	6	4	57	40	56	3 45	55
1	ļ	18	1	3	21	3:	3 20	30	39
	"	50	ι	59	37	7 2	4	4 4	39
- 1	1	40		36	31	0 2	7 3	8 3	23
-		161	91		92	7 93	0 1 04	8 95	5 950
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APPENDIXQIV Arca unles t & 1000 in In to and Hurma

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		Others	£	[Ξ	Ê	Ξ	Ξ	ε	€	12
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	nles	Anama s Dominiona.	1 \$	91	130	102	<u>.</u>	100	2	1 57
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	3	9	ê.	ន	£	<u>ê</u>	 82	<u>g</u>	<u>e</u>	ĝ	æ 	<u>E</u>	(g)	170	155	313	<u>0</u>	1937 38†
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1,375	103	1,272	53	55	7.4	5	:	: :	3	₽	3	3	526	E:	191	281	1 023	1032 33
1,399	88	1311	41	52	29	02	2	į	900	:		3	3	3	₹		1 821	1931 32
1,430	56	1,348	48	23	48	8	22	36	201	629	- 12	ě	900	3	3	162	200	1030 31
1		1,537	5	23	81	23	25	3	305	6	F	7	676	9	-		3	1929 30
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9	_	97.9	_	31	155	(2)	(g)	23	8	37	20	-	7	-		_		
(e)	-	(9)	_	-	-	-	٠	-	;									

†† Comprise of 127,000 acres in Bihar and 20,000 acres in Orses (a) Figures not available Including Sind

APPENDIX V

Estimates of production of raw tobacco in India and Burma*
(Thousand tons)

			31	94					
		athal latest bassib amurd bas	597	652	691	620	1	604	
		Burna	65	8	3 3	2		35	_
		arbaI latoT	548	583	646	576	100 0	560 (a)	_
		Огрега	2, 2	E 5	ះតន	22	8 8	2 (g)	_
		erosyl	oc oc	90 0	0	œ	1 3	1-00	
	,	виопишод в швиХ	17	25,5	22	16	20	22	
	Indian States	Decren States and Jugadiod	==	===	122	22	2.1	22	
	Indi	Cooch Behat			នេន	27	4.7	ន្តន	
		Baroda	r- 00	00 kG	==	œ	1 6	8 (g)	
Thousand tons)	_	LetoT	88	25	52	93	16 3	8 3	
Thousan		819d3O	82	ន្ទ	88	22	4 7	8 29	
ات		ΨŪ	8 8	25.88	84 9	88	14.2	2.73	
		Puntab	30	କ୍ଷ 	88	8	10	8 3	1
	ndıa	Madras	100	107	82E	115	19 7	ā (ā	1
Ì	British India	Rombay	8.4	8 8	æ 53	3	27	84	1
Į	,"	seciiO bite indica	88	88	22	88	10 4	88	ľ
		Bengal	88	88	129	129	22 3	필음	1
		lato'T	455	430	494	483	83 7	(a)	l.
		Years	1930 31			Average Pro duction	Average Per centage	1936 37‡ 1937 38	

Provinsional figures I II 1968 7 sorprate of 16 100 tons in Bihar and 11,000 tons in Orins and in 1937 38, 52 0.00 tons in Bihar and 11,000 tons in Ories, (9) Egera not yes studied *Estimated production ascompiled from marketing survey enquiries

Estimates of area (in acres) un ter d. Herent Uppes of tobacco grawn in India and Bur na in 1331-36 APPENDIX VI

	400	The same of the same of										order o		
				Nicot a ta Tabacu a	Tabaeu o	_				1	Nicotiann is serior			
		-						-		_				Grand
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Control Provinces and						282				1 296			1 296	1 296
Delhi						000 27		3 200	201 000	1 000			1 000	92 000
Madres	40 000	•000 °G	2 000	107 660	9		_			5 628		8 430	14 058	14 058
North West Frontier		_	_				71 893		71 803	13 983		1913	15 926	87 819
l unjab				_	_		4 577		4 827					4 827
Sad	520	_		_	_		_		18 051	74 624	10 661		85 285	100 330
United Previnces	901	_		_	8	108		_			_		88	28
Ajmere Mersura	_	_		_	_	_	_				_	_	_	6
Coorg		_	_	_	_	-			•	÷	1			700 071
Total Brt ah Ind a	40 472	2 69 610	0 2 010	0 115 490	130 151	1 139 667	349 602	14 838	80 838	213814	8 310	10.873	283 Unit	
• Thi	s fgure of	65 000 acc	res refors	to area in	Guntur E	strict (Me	nand for 1	s only a v	• This fame of 65 000 ames refers to area in Gantur D street (Madras) and a only a very rough approximate as it elsed is used extensively	oreg o jo	to as the ites and c	leaf 1s uson at and pip	i extensive e tobaccos	Å.
	101	nak ng a	t errore w	To solie!	100									

	n Ind a and Bu ma 1931 3	
AFTUNDIA VI—concia	Felt a e of area (n acres) under d ffere 11 ff e of tebacto prown:	

				N cot an	N cot ana Tabe um	g				N cot	A cot ana Rust ca.	ag g		
Troy ace or State	Ogn rette n a)	C.gs. rette (Coun try)	re So	Cheroot	Bd	Chew ng Ch lam	Hookuh Ch lam ele	Snuff	Total	Hookak	Chew ng	Souff	Total	Grano Tota
Ind an States														
Baroda					29 923	000 9	21 610	1 937	59 370	_				59 370
Cooch Behar				2 500		200	36 200	100	29 000	18 800	200		19 000	98 000
Control Ind a States									_	0000	_		8 000	9006
Decran S ates and Ko ha					34 974	6 532	6 532	3 206	51 304	1 000	_		1 000	52 304
G erat and W I States					200				200					200
Gwal or										8 356			8 356	8 356
N ram s Domm one		8		9 364	93 656	2 000	38 835		74 501					14 501
Keebm r					_		02		93	3 660		200	3 800	3 910
Macras States						31			31					33
Мувоте	100				12 026	9 887		634	22 646					22 046
Punjab and S nd States		_					2 763		2 763	0.331			8 331	9 094
Rajputana Stat =										13 400			13 400	13 400
Un ted Prov ness States										1 400			1 400	1 400
Total Ind on States	100	9		12 464	100 818	24 650	008 01	5 937	249 865	01 947	200	80	62 347	312 212
Total Ind a	40 572	69 610	5 010	128 954	230 969	164 317	465 492	20 773	1 115 703	305 791	28 549	11,013	345 413	1 461 116
Die ma	_	L	L	84 000	13 000	2 000			102 000					102 000
1				_				_		_				

d pounds) of different types of raw tobacco proluce I in India and Hurma in 1934 35

APPFNDEX VII

_				Missel and Talescum	Talescui	a								
				MIGOR COLO			-	-			-	-	_	Grand
Province or State	Crgs retto		Cigar	Cheroot	Bids	Cl ewing Chilam,	Hookah, Chulam, ete	Souff	Total	Hookah Chewing	Chewrog	Snoff	lotel	Total
	nia)	£,	1	Ì		Ì								
British India							7 021		7,021	7,020			7,020	14 041
Assem	_					9701	903 009	\$29	214 913	100 800	222		107,451	322,361
Dongal	_		2	27.6		_	99 458	_	66 856	31,715	13,887		45,602	112,458
Bibar and Oriesa		3 895		_	070		13 408	6 701	107 339	602		301	903	108,242
Bombay	5	_			13.040		7 308		9 744					9,744
Central Provinces and										3,305			3,305	3,305
Delhi				50	150	70 143		3 360	283 008	1 000			1,050	285 048
Madras	26 480	68 770	2 034	107,002		_				13 507		20 232	33,730	33,739
North West Frontier							70 050		70 050	13 625	_	1,893	15 518	82,668
Punjab				_			18	_	8 048		_			8 048
9mg	514					7 007			33 983	169,770	0 24,254		194 024	229,007
United Provinces	٤ 	_		_	- 	107 6	_			_	_	_		58
Ајтого Мегиала				_			_	_	_	_			_	_
Coorg		_				*					<u> </u>			1010 808
Total British India	27 137	72 666	L	5 044 116 484	018 08 1	0 127 897	7 161 331	10 588	801.916	3 147 618	8 8 696	22 426	408 940	

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APPENDIX	
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AFF UNIL—CONCIA. Estimate of production (in thousand pounds) of different types of raw tobacco produced in India and Burma in 193£ 35—coatd.	produc	pus) nos	passnot	o (spunos) o	f differer	AFFENDLA VII.—concta. nt types of raw tobacco pro	fraw tob	concia. acco prod	uI us peon;	dra and	Burma v	. 193# 3	5—eontd	
				Nicot ana Tabacum	Тарвечи					N N	Nicot ana Rustica	ustica		
Province or State	Ciga rette (Virgn me)	Ciga rette (Coun try)	Cigar	Cheroot	Bids	Chewing Chilam	Hookesh Chilam ele	Snuff	Total	Bookah.	Hookah. Chew ng	Snuff	Total	Grand
Indian States														
Beroda					12 987	2 604	9 335	88	25 767					25 767
Cooch Behar				2 620		210	37 938	105	40 873	19 702	210		19 912	60 785
Central India States										9 000			0006	000 6
Deccan States and Kolha					21 054	3 932	3 932	1 966	30 884	605			602	31 486
Gujarat and W I States					87		_		85					83
Gwaltor										8 356	_		8,356	8 356
Atzen s Dom nions		en		4 882	11 611	086	19 029		36 505					36 505
Kashmr							40		Ç.	2 928		160	3 088	3,128
Madras States				_		28			88					8
Mysore	38				7 696	8 404		406	16 542					16 642
Punjab and Sind States							4 631		4 631	6 331			6 331	10.689
Rejputana States				_						13 400			13.400	1000
United Provinces States										9688				0000
Total Indian States	36	-		7 502	53 435	16 153	74 805	3318	155 257	63 005	918	160	100	910 630
Total Indea	27 173	72 058	5 044	123 9 86	134 245 144 656		436 136	13 908	957.913	410 898	30 000	90 206	200 007 700 012	400 000
Burna				83 160	12.870	4 050	Ī	Ī	000					000 000
		_	_					_	200 004					086 001

AI PPNDIX VIII NICOTIANA TABAOUM

			Пектоп	Rangpur	Trichino	poly Madura, Colmba tore, Go-	Cuntur and Vizagos patam	Cooch Bebar Warungul	Nalgorda and Maha boobnagar			fig 000 To ingoo 1 gu Thayetayo Kyaukpyu Ryaukpyu	generally
(1934 34	root	ľ	Ground					900		900		86 	_
fouring	Ĝ		Rack	8 000	107 500			2 500		107 058		22,000	
thods o			I lue							ļ.	1		
eng to the me	Fairmates of area (in acres) under d fferent types of ted areo in In its area human cussive eccurring		Districts	Rangpur		Friedino Poly Madura Combi tore and	Viraga patam						
ed accord	2000	Triger.	Ground										_
alassi f	Transit.	1	Ruck	2		2 000					010 0		_
BACOM	DELLEG	ï	100	-							_		
NICOTIANA TABACOM	In the and	- T	£ .		de arra	(i nt r Kistna ind Qoda vari			ity inal vi				
ž	ol areo ta	to ntry!	Gro in l	İ	- G						4 610		
	fo sadi	Cigarotto (Contry)	Rack	Ì		0110			9		61 756		_
	ferent.	ರ	11 to			3 250					3 250		_
	res) under d	(a)	Prote		Satura	Cintir Kistna and Golo vari		Sukkur Sahar Inpur		Cangalore			
	u (111 ac	Cigarette (Virgin a)	Rack	1	8	3 600				1	2 032		
	ntes of are	Cigarett	FI se R	-	8	38 000		100		90	38 640		
	Tetme.		I rovince or State	- 1	Bengal Rombay Bibar and			Sind U P Cooch Behnr	Nizam s Do micions	Муноге	Total	Barme	

APPENDIX

Nucrtana Estimates of area (in acres) under d fferent types of tobacco grown

		B	ds			Chewan	g
Prov nce or State	Rack cured	Ground cured	D stricts	Rack cored	Cround	Pt cured.	D str cts.
British Ind a							
1 Assam							
2. Bengal				226	774		Rangpur a
3. Bihar and Or sea		4 590			43 357		Jalpaiguri Muzzafarpur a Purnea
4 Bombay	2 50	119 751	Ka ra, Belgaum Satara, Ahmeda bad and Broach	2 000	10 2 2	10 000	Kaira, Belgan Satara & Broach
# C P and Berar	ı		bad and Broach		2 905	968	Bilaspur Saugi Amrost Chin wara si Buldhana
6 Madras	3 600		Salem and L r too	28,266	28 *66	10 69	Combatore To ch nopoly Madu Nello e S Kana
7 Pun ab	1				ļ		and Ganjam
8. S nd							
9 U P		69	Farukhabad		1 861		S tapur Bara Ban Gorakhpur a Bahra ch.
0 Coorg				9			
1 Total Brit st Ind a	5 750	124,401		30 501	87 430	21 36	
Ind on Sta s		i —					
2 Baroda	3 000	26 923	Baroda Dt (Pet- lad Taluka) and Mehsana Dt	2 000	4 000		Petlad Taluks
3 Cooch Behar			21		200		Cooch Behar
4. Deccan States and Kolhapur	1 600	33 374	Sangl Miraj and Kolhapur		5 232	1 300	Sangi Mrsj a Kolhspur
5. Gujrat and W I States 6 Nizam s Domi mons	4 750	18,946	B der Gulbarga, Mahoobuagar	1 200	800		B der Gulberg Osmanaba Mahoobnegar etc
7 Kashm r			Osmanabad, etc				Manny Stages Co.
8. Madras States				31			
9. Mysore		12,025	Mysore and Hassan	9 887			Tumkur Kole and Chitaldrug
O Punjab and S nd States			ATASSHII				
1. Total Indian States	9 350	91 468		13 118	10,232	1 300	
2 Total Ind a	15 100	21. 869		43 619	97 682	23 036	
23 Burma		13,000		'	5 000		

VIII-contd

TABLCUM.

m India and Burma-classified according to the methods of curing (1934-35)

		Hook	2λ Cλι	Lam,	etc.			S	uff.		_
Rack rured.	Grous		ht red.		Districts.	Rack cured	Grou		Pit ured.	Districts.	
		-	_	_							ı
6,269		Ì		8	dpera, Kamrup, \owgong nd smaller areas n other listricts.	200c				Rangour	2
43,955	150			:	ngpur and Jalpasgur	1					3
200	20:	3 3	2,000	١.	zaffarpur and Purnes	500	10 (636		Kaira, Belgaum,	4
	s,	714	2,904	B	Ahmedabad and Broach.						5
					etc	3 000		!		Kistna, S. Kanara, Salem.	6
1	1	1		ļ		1	1			1	7
	21	15,8	50 325		allunder Ferozepur Gujrat, Shahpur etc.			- 1		1	8
	1	L,577			lyd rabad, Sukkur Nawausiia			ļ		1	9
	1	3,030		s	tapur Bara Bank Gorakhpu and Bahrasch						1
50,43	4 2	13,919	55,22	9		4,20	0 10	636			1
10 (00	11,510		1	Baroda D strict and Mebana District	1	,	937		Baroda Dis- trict.	1
ì	-		1	-1	District	10				Cooch Behar	1
9	XX0	27 200			Cooch Behar	10		3.°∍6		Sangt and Mars)	1
1	- 1	5 539	10	90 h	Sanglı Mıraja d kohapur		ı		Ì	anre)	1
	1	38,835		-	B cer Gulbergs, etc.		1				1
1	1	30				1	i			I	1
	- }	o.	1	1						Mysore and	,
	١						1	634		Hasten Mysore and	2
L		30	1 1,	812				5 337	}		-;
Ī	000	84,01	8 2	812	i	1	00	16 4 3		-	;
- [•	2 454	397 94	57 53	,071	i	4.3	100	10 1 0	┼─-		- 5

APPENDIA VIII-concid

Astimates of area (in acres) under d ff re t types of tol acco grown in India and Iurma class field according to the methods of cur ns NICOTIANA RUBITGA

				-							
	le le	D strots					Kaira, Satara and			Poshswar and Mar-	dan Attock
	Saud	7 2									
		Rack Ground oured cured					200			8 430	1 943
		Rack	L_								
•	Chewing	D ate ets			Rangpur						
	ě	P									
(1934 35)		Ground			630	17 168			•		
(193	_	Rack									
		D stricta		Goal; ara, Kamrup,	All over Bengal but ob effy Rangpur		Ka ra, Satara Bel	Delhi	Godsvan	Peshawar Marden	Hosh argur Attock, Gurgaen, etc
	Hookan	Z.E									
	,	Ground P.t. burnd, o red			76,500	38,617	1 000	1 206		929 9	13 983
		Rack		6,268	28 500				1 000		
		Prov es or State.	Bub h Ind a	Азыт	B ngal	B bar and Origin	Вотрам	Debi	Madre	N W F Prov nee	Punjab

							403	3						
	620.07	210 01				_			200				200	11 073
I arakhabad Ba daun Jaunpur I tab eto				Cooch Behar		_								
100 01		28 340		500									200	28 240
Farukhabad, Ba daun Jaunpur Ftah Aligarh ete				Occasion Delice	TOTAL DOOR									
			 				_						1	 8
74,624	81	211 078			14 100	000 6	1 000	8 356	3 660	6331	13 400	1400	57 247	37 468 268 323
		32,768			92								4 700	37 46
United Provinces	Ajmer Merwara	Total British India			Cooch Debar	Central India States	Decong States and Kol	Gwallor	Kashmir	Punfab and Sind Statos	Raji utana States	United Provinces States	Total Indian States	Total Indua

APPENDIX IX

Behmales of production (in thousand pounds) of different types of raw tobacco in India and Durma classified according to the methods of curing NICOTIANA TABACUM

	:			(1934 35)							
	Cigarette (Virginia)	ette nus)	Cigan	Cigarette (Country)	ĵ.		Cigar			Cheroot	
Province o State	Fine	Rack	Flue	Rack	Ground	Flue	Rack	Ground	Flue	Rack	Ground
Bengal							10			9 422	
Bihar and Onesa					3 895						
Borabay	54	19									
Madras	25 156	1 324	3 438	65 332			5 034			107 062	
Sund	514										
United Provinces	20										
Cooch Behar										2 620	
Изгат в Dommtons				63						4 394	488
Мувого	38										
Total	25 830	1 343	3 438	65 335	3 805		5 044			123 498	488
Burna								L		24 750	68 410

ALL FINDLY IX-contd

I stimol a of 17 d ction (in thousand pounds) of different types of row tobutco in India ind Burms classified according to the m thods of curs of NICOTIANA TABACUM

				(193	(1934 35)		i		,	•	
	B	Bidi	5	Сћочив		1100	Hook sh Chilim, "to	m, 'tc		Snuff	
Frounce of Stake	Rack Ground cured cured	Ground	Rack	Gro ind cared	Pn eurod	Back	Ground	1 it cured	Rack	Ground	Prt cared
Assam						1 921					
Bongal			237	811		46 100	157 809		524		
Bihar an I Orisea		3 878		38 C26			22 458				
Bombay	1 636	72 001	1 204	181 0	0.000	121	12 077	1 210	301	8 403	
C P and Boran				1 827	609		, 482	1 826			
Madras	3 150		29 469	29 409	11 204				3 300		
Punjab						_	21 015	414 035			
Sand							7 524				
u v		98		4 274							
Coorg			4				City Bo				
										_	
Tel d Br tish 1 th	4 800	76 005	30.914	73 100		73.24	17 831 73 24. 2 6,018	62.071	4 185	6.403	1
	-	_	_								

APPENDIX IX—contd
Nicotiana Tabagum

Patients of the same			Ñ	Мютана Тавасим	ABACUM						
manness of production (in thousand pounds) of different Lipes of raw tobacco produced in India and Bi rain classified according to the methods of crang (1984-83)	pounds) of	dsfferent t	n fo sad!	raw tobacco produ	roduced 1 f 35)	n India a	id Bt 17110	classified o	according i	to the meth	fo epo
	-	Bids		Cl owing		Hoo	Hookah Chilam etc	ar cle	_	Snuff	
Province and States	Rack	Gro m I	Rack	Ground	1 t	Rack	Gro m l	1 t	Rack	Ground	Prt
Indian States	-										
Baroda	1303	11.00%	-								
Cooch Behar	-		6	927		4 340	4 993			3	
				210		8 468	29 470		105		
Peccan States and Kolhapur	1 033	20 021		2 911	1 021		3.450	٩		000	
Gujrat and W India States		- 83					2	701		206	
Nizam s Dominions	0 000	-	-								
Kashmir	200	1830	288	395			19 029				
Madras States							40				
Manne	_		88								
Punish and Sind Green		969 4	8 404			_				408	
BOOK OF THE PROPERTY OF THE PR							1 510	3 021			
Taring Market	4 66°	48 773	9886	5 249	100	12 808	58 404	3 503	15	3 9 1 2	
Burma	9 467	194 778	40 802	84 399	18 854	00 000	314 512	55 574	590	9196	
		12 870		4 950		İ		İ	İ	Ì	-

APPENDIX IX-cond

Estimates of production (in thousand pounds) of different types of raw tol acco in India and Durma classified according to the methods of ouring NICOTLANA RUNTICA

			(1931-35)		and the method of curing the method of curing		or dumpeo	e methods of	curring
		Hookah		5	Chewing			Shuff	
Province or State	Back	Ground eur d	Pat c tred	Rack	Ground	Prt cure i	Rack	Ground	Pit
British India									
Ansam	7 020				_				
Bengal	20 724	80 172			200				
Bihar an I Oresa		31 715			13 604			_	
Bombay		609			100 61			_	
Delhi		3 101						301	
Madras	1.050								
NWIP		19 100							
Punjab		10000						20 232	
4.0		13 620						1 893	
Assessed by		169 770			24 254				
Ajmere outwara		83							
Int illruch inia	34 794	312 724			38 600	T	T		
	-	_			, , ,			22.428	

APPENDIX IX—concld

NICOTIANA RUSTICA

Patemates of production (in thousand pounds) of different Lypes of raw t bacco in India and Burnah classified according to the methods of

Current of the contract of the	,	Carron Man Carron	curing (I	934 35)					
		Поокай		5 	Chewing			Snuff	
Province or State	Rack	Ground	Pit	Rack	Groun l	Pit	Rack	Ground cure 1	Pit enred
Indian States									
Cooch Behar	4 926	14 776			210				
Central India States		000 6							
Deccan States and Kolhapur		803							
Gwaltor		8 356							
Kashmır		2 928						091	
Punjab and Sind States		6 331							
Rajputana States		13 400							
U P States		2 686							
Local Indian States	4 926	68 079			210			160	
Total India	39 720	370 803			38 906			22 586	

it areas of India	Marketing	January March.		April June	October-November.	Do	November Jan	uary	January			reb July	April Sept	o D		on _	March May
acco groun in importat	Harvesting	194		Do	September		3	October	December			Dec 1 ob	Jan March	<u> </u>	3	8 	Jun 1eb
f different types of tob	Fransplanting			ρ°Ω	James	all of	Do	June	Total	(m)		sopt Nov	Nov Dec		og 	on 	Oct Nov
APPINDIX X strag and marketing o, and Burma	Sowing	Ę	August Soptember Oct Nov	no.		April Mav	Do	April		May	2 Cloar and Chfroot	August September	Sont Oct	and adam	ů	οΩ	August
, transplanting, harve	Variety	1 CIGARETTE	_		Country or Desi	Varginia	Ъ	Virginia (1st	(HORROD)	Virginia (2nd season)	2 CIGAR A	Cheroot (Dest)		907	Lankas Cheroot	Do	Cheroot
burnos fo spo	Spoores		V tehamin Virginia	- Identification	8	001	Do	ź	ŝ	Do		ē	3 1	ద 	26		್ಷ ಜಿ
APPINDIX X APPINDIX X and a beautiful of sound, transplating, harveing ameniting of different types of tobacco grown in important areas of India and Harman and International and internationa	Districts		_	Quntur (Madras)	20	Saharannur (U P.)	Thomas (II P.)	Times (Mysoro State	Do			Guntur (Madras)	Virngapatam (Madras)	Trees Godavan	(Madras)	Natha (mattes)

Combatore (Madras)

IPPENDIA X- mid Valement aboung the normal ferrids for irrag francytintus) havreting and a

and the control and markeling I different by see of above of four his some stand	The trieds of India	New John		May-July	` å	May Mark 16.	May October	May-July	å å			March August.	March July. March
of women groups in		Harreting		1 cb March	200	Jan March	lebruary April	tprif Yav Do	8		January		
ing I different types		Transplanting	-	Nov Dee	D., A vrember	Apt No	Det Non	. 3	og.		Ortober	Nov Dec	Septeml or
and Burn		Sowing	2 Cioaris and Cherom-c all	Agt Oct	Ungust	Fulv tugust	ž.	2 ,	á	_		mber-Det	fin
Ì		Virets	COARS AVE	Cherrot D,	Gamtur ts pe	Local Jata	Burmeso Havana Cheroat type	type Aunywa hee I orch	light element	3 Bur	Local type		
		opreme	3	Do Do	<u> </u>	ď	ಕೆ ಕ					eg eg	-
	Districts		Madura (Madras)	Trichinopoly (Ma Iras)	Hyderalad State	Rangpur (Bengal)	Toungoo (Burna)	Upper Barms dry zone district		Salom (Madray)	S. hanara (Madras)	Hyderabad State	

													4	11													
Do	Att I. was and	January o me	March June	Wah June		January June	:	Nov June	January June	the American	January April	May July				January April	March	;	Do	March June		June September	June September		throughout the	year	Do
Do	_	January March	March April		Feb Maron	Jan March		Nov March	Nov Dec	_	January Feb	Annal May	form multy		_	January April	Tennary	•	å	Fel ruary Warch	_	May June	May		February April		May June
2		August Sept	Non A		Ang Oct	_	August Sept	August Scpt		sobt oct	August Sept		Dec January	_		Oct Dec	an land	Depression	D°	Nosombor		March	ř	PCT .	Nov Doe		March April
	Do.	Tone July	_	Vug Sept	Inte		June July	T. I.		July August	_		_	_	- I	August Nov		July August	July	O to be	Sept October	November Dre	,	96	August Nov		January I ob
	Zarda ,	_	_	Calcutta			2		Pan tharpuri			Dest Zarda (Lat & .	Kunywa heo Bida Sept Oot		4 1000Em			Jawari	Rhushnir		Vilayata	Dees		Calcutta	Calcuttan (Mahu)		Calcutta (Bassa
	200	_	ě.	N ration		N tabacura Local	2		N rustica 1	N tolanim		å	2			_	-	N tal acum Jawarı	å	_	N rustica.	N tahacum Dest		N r stien	å		8
		Di far (ITy loral a I)	Kairs (Hombay)	_		Broach (Bombay)		Belgaum (Bombay)	D ₀		Mysore State	Baroda Stato	Upper Burna Distta	:			Assam	Nicem a Donoinions		no	Bihar and Orissa	4	Lange	Punjab	Tarukhabad (U P.)		å

October Nov

September Oct

Calcutta Calcutta Vilayatı Motsharr Mothari

N rustica

HOORAR—con d

1 A DEPARTMENT V

Species	Statement show up the normal periods of nouncy transplantus, harvestand and marketing of different Lipses of tobacco grown in important arrest of Ind a conditional and the conditional arrest of Ind a conditional arrest of Ind	Variety Sowing Transplanting Harveting Marketing
Species	arr transplanting harve	Variety
	trode of sound	Species

of tobacco grown in import	Harvesting	March April February May (2 cuttings) Lebruary March
>		<u>}</u>

412

June October August Sept

March April

Sept Nov November September

Nov Dec

October August

September

January March

January March

May October June August July August

April May

February March bruary April

October Nov

September Oct

N rustron

Midnapore (Bengal) Rangpur (Bengal) Rajshahi (Bengal)

Ajodhya (U P)

Jaupur (U P)

Sitapur (U P)

Rangpur (Bengal)

Nadia (Bengal)

September

June and July

I ebruary April

No transplanting

crop
Karo & Acho 2nd Soptember Oct
Trop
Des

Khaurpur State

October Juno

Karo & Acho (mostly Karo) Karo & Acho lst

Naokhol Vilayatı N tabacum Bhengs N tabacum

Nawabshah and Hyderabad

(Sind) Dadu (Sind)

December

October Nov

January Feb March April April May

July Angust November March August

March May

January Feb

October Nov Detober Nov

5 CHEWING Angust

January

May July	Do
Feb March	Do

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Nov Doo â ņ

Sopt October

å October Sopt Oct

August Sept

Local types

8

Colmbatore (Ma Iras)

March July March After harvest throughout the year

March June

Loh March leb April January å

November

Septem) (F Nov De

January June M 1y October Mny October

Aprel May

10115

July Aug 18t

Nnokhol

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Bhe gu Local

N tabacum

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Solt Ort

Kunywa hec Shwetasoke

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Ur per Burma Distin al ove thayelmy o Henra in (Burma)

Mysore State

00 M ty July ŝ

1-d April

2 N v Dec

ich March tob March Ret April

November

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Soyt mler Sopt Oct

N rustica | Bilata gobijom

Dinaspur (Bongal) Rangi ir (Bengal)

Rangpur (Bongal)

Sitapur (U P)

Sept Oct

Јију Апран

Desi

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Septeml of

August Nov

Dest (Mahu)

Farukhal ad (U P)

Sept Oct

July

Jawarı and Parda

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Trichinopoly (Madras)

Madura (Ma Iras) Salom (Madras)

Transvelly (Madras)

S Kanara (Madras) Niram e Dominsons Bitar an l'Orfusa Oct N v

Statement aboung the normal periods of souns, transfirms, harresting and markeing of differest types of sobreco grown in important areas of India and Brema Marketing Harvesting Transplanting APPENDIA \-concld Sowing Varioty Specios Districts

Set Oct Nov Dec Junary March April Sept
_

6 SNI FF

N tabacum Local N rustica Gobbs N tabac 11 | Local

S Lanara (Ma Iras) Kistna (Madras)

dinc a	Sept
March	June

414

January May June August

Nov Dec May June

> Sept Oct Lebruary

July August

Namoura (Kandhari)

North West I ronfer I rowned N rustica

Mysore State Pur Jab

March

Nov Dec Nov Dec AI PENDIX XI Iscurd behave through the Pereyn Countries from Ampers and Pereyn Countries

L	,	The second	ns t ctured	and matt	fretured	topacco th	rough the 1	orts of Br	tran I mara					
IC	Ingota	6				1					Value in rupees	leod.		
AB.					Santity	Quantity in pounds						Tobacco	Other sorts of	
	Period	_	Unmanu factured tobacco	C gare tites	Cign	Tobacco for pipes and organettes	sorts of manu factured tobacco	Total	Unmanu factured tobacco	Cigarettes	Cigara	for pires and oigarettes	manufao tured tobacco	Į
				1							0.00.007	17 02 957	1 65 826	2 13 1-34
,	1025 °0 19 6 27 19 7 28		4 906 900 5 703 449 3 1 84 951 6 7 0 7 16	3 411 075 4 174 711 6 66 5 960 4 97 2 083	30 727 33 002 35 973 34 400	276 060 266 570 254 257 217 604	36 830 37 422 56 898 20 589 32 991	8 071 401 10 205 154 0 0.8 015 11 004 572 10 130 610	33 79 762 41 48 015 32 01 052 57 42 304 39 71 521	2 30 96 319 2 30 96 319 2 00 90 260 2 13 16 574	2 00 864 1 74 218 1 75 014	15 16 088 13 15 4 15 13 15 4 15	1 97 110 2 18 023 1 37 261 1 60 940	2 50 10 50 50 50 50 50 50 50 50 50 50 50 50 50
	07 070			000 282 0	8					100 01 10	867 131	15 05 801	1 73 830	2 61 01 815
	_	Amount	6 181 574	4 683 510	36 549	245	£	=	40 88 549	102.04.10.2	0.1	80	0.0	100 0
	Average 4	Per cent	10 0	0 97	0	2	0	a l	1				1	900 **
	1070 31 1031 72 103 33 1017 74	,	1 608 381 2 814 919 5 115 672 4 187 024	3 050 602 1 435 980 831 571 502 996	32 514 21 358 16 030 17 146	189 648 120 433 48 629 50 391 61 563	30 762 45 766 40 729 1 40 981 36 930	4 929 987 4 477 459 6 051 031 4 894 537 3 701 523	14 39 616 29 86 459 6 27 028 47 27 430 33 66 673	1 2° 48 144 5 77 761 28 94 977 19 06 632 22 21 100	1 59 548 1 0 1 647 85 284 7 1 51 0	10 88 627 8 51 XII5 3 16 202 3 00 474 3 91 497	2 13 050 1 80 105 2 07 516 1 52 108	151 10 800 94 31 454 96 03 506 72 14 621 61 82 439
	1014 35					_	4			40.00 54	00.00	5 88 221	1 86 526	95 28 183
	Average	(An unt	3 346	1 306 92	2	8	031 42 033	1001	39.3	18			61	190
		l er cent	8	27		:	1		ļ			<u> </u>		
	1035 36 1035 37 1037 38*		1 920 692 3 282 045 3 040 686	45 831 412 45 919 039 86 1 084 201	12 12 818 00 13 871 01 22 434	18 50 550 71 57 729 34 69 150	50 43 260 29 33 166 50 40 836	30 2 858 732 76 4 J06 810 30 4 267 310	12 27 84 764 10 44 76 720 10 41 45 (79	28 10 046 31 00 281 9 37 22 407	6 69 91 1 1 61 338 7 70 721	3 20 350 8 2 36 353 1 3 44,510	1 153 284	84 36 001 84 36 001
	-		-	-			*Prov	Provisional figures				:		

APPENDIX XII
Sources of imports of unmanufactured tobacco into India and Burma

				Impor	Imported from				
	의 의	Empire Countries	90	!	Torei	Foreign Countries	1		
por	Vnited Kngdom	Other Emp re Countres	Total Empire Countries	Nether	Dgypt	USA	Other Fore on	Total Pore gn Countries	Grand Total
	æ	æ	æ	æ	a	æ	2	4	1 4
					Quantity				
	16 557	365	16 912	84 216	8 344	1 484 800	14 109	1 591 469	1 608 381
	146 507	3 895	150 402	50 526	3 078	2 484 397	156 316	9 094 517	2 844 919
	340 558	2 56"	352 123	71 307	7 375	4 6.2 527	32 2-0	4 763 549	5 115 672
	2 021 805	9 221	2 031 026	49 964	2 866	2 091 954	11 214	2 155 998	4 187 024
	1 133 075	31 414	1 164 489	39 510	4 533	1 762 7.7	5 761	181, 561	2 977 050
Quantuty	733 500	9 490	742 990	59 122	5 239	2 400 287	43 970	2,603,618	3 246 609
Percent	219	0 3	22 2	1.7	0.2	74 6	1.3	8 77	100 0

1931 32

1 9°0 60 3 8 955 1 060 686	Rs 14 39 646	°0 85 679 6 27 0°8	47 7 430	33 06 673	37 47 °87	97 84 764 44 76 720 41 45 079
3 11 504 3 11 504 3 11 394	Rs 14 06 517	20 77 316	£03 cf 9	20 49 673	30 28 434	4 08 638 3 15 8 40 8 J 9
9 103 18 81 7 3 1	1Rs 91 F08	16 989	18 169	830	1 3	13 3
3 000 713	Rs 12 r° 7 6	21 33 101	26 10 679	24 78 409	28 81 338	°3 30 7111 4° 41,531 4 46
6 7 6 6 7 6 1 7 0 1 7 6 7 5 8 7 3 8	Value Rs 1º 756	5 187	787 6	7 740	10 277	7 676
013	Rs 1 10 527	07 646	61 673	48 154	84 787	56 899 34 077 41 407
101 014	18e 73 12J	3 08 343	20 97 627	8 14 000	7 18 793	3.76.110 1.60.105 59.11Q
3 768	Tha 340	4 300	1° 510	20 148	8016	3 242 3 10 3 6
358 144 169 991 37 968	Rs 32.780	3 03 303	90 15 117	7 93 8.2	7 10 778	3 72 874 1 60 502 48 781
-					t t	

1 031 1 11 3 10 2 3 1 13 34 1 4 3

*I rov s onal

103 37 103 37 1 37 3 *

					418				
	asso products.			Cipare	11 579	12,171	7,926	8,676	10,419
	see and procesped to			Cigarette	21,838	26,867	23 417	26,141	28,607
	sanufactured toba		Exports	Unmanu factured tobacco	1,904,479	2 538,101	2,047,271	3,172 441	2,036,759 .
	nd Burma ъв имп	1934 35) lb.)		Manufactured tobacco for pipes and eigs	9,367	7,810	8,174	9,218	7,428
APPENDIX XIII	f British India	(Average for 5 years ending 1934 35)		Cigara	1,518	1 105	1,594	1,373	932
APP	trough the ports o	(Average fo	Imports	Cigarettes	165 222	123 018	144 637	103 555	74,101
	orl trade by sea th			Unmanu taklured teluceo	186,275	261 606	196,108	243 432	316 378
	Astroge monthly export and s regat frade by sea through the ports of British Indus and Burma in unmanufactured todacco and principal todasso products.			Month				_	184
	4		•		Aprıl	May	June	July	August

7.356	9 108	800 0	0 664	7 478	9 0 0 0	11 086	112 402
20 163	24 754	10 808	23 487	20 462	26 599	34 167	206 301
1 707 663	2 202 704	2 050 063	1 618 316	1 450 675	1 631 967	1 792 671	25 969 140
5 200	5 838	8 202	7 380	8 600	8 028	0 632	95 930
1 330	1 776	2 700	2 528	2 000	802	1 222	19 633
54 115	88 100	80 405	103 209	134 672	116 232	108 074	1 305 929
207 151	264 082	212 570	182 204	576 872	396 147	180 577	J 346 462
-							Dual

Pobruary

March

November

October

December

Reptemter

ALLLINDIA ALV

İ				3 01 1 11 14	orts of gar	sofin ports of gartles wal In and Ira	4 I Pasu	e				
						I jort d fre u	n E		1	 		
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101	- - - 3 - 3	5.7 5.7	_=~			5 ⁴ 5	=	2	, ,	£	101	Tot 1
				_		Quantity	i					!
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11.0	40.434	-	- -	Ē		_	7	-	3	3	184 100	194 100 1 0 9 691
7.	1150	~	-		-	-	-	. 116	2	ξ	. 0 194	1 435 190
ti ti		_	=	=	-	-		[=	÷	10 46	531 771
334	124 431	×	- / -	_	=	7	74 0	c	10 61	.s	508 80	11 995
52	290 902	હ	11.41	F	-	3.0	6 111	* 1	=	1 307	30 00	614 366
or ga (Q and ty 11 0 174	11 6 174	0 7	13.4.0		1180388	50 157	1 91	=	17 978	1 693	1"6 53"	1.6 53" 1 305 9 0
(1 rount	28.5	0 3	0 1	0	٠ 00	0.1	1 7	0	=	0	0 7	1 10 0

1 130 31 1931 32 1933 34 1934 35

	780 399 8 0 957	293	11 145	337	33° 880 56	639	6 3 4 9 5 7	2 707 9 08 9 5 8	19 591 99 014 33 276	183	18 813	019 099 1 081 °01
	1 029 011	-				Value	-	-	<u> </u>			
		E E	. Ba	ž.	RB	188		Rs	Rs	- N	Rs Rs	Rs 9 48 144
=		806.9		83 °C 1190	1190 19	18 2 6	3.03	44 096 101 108 6 19 7-16	01 108 Fo 16	161	37 01	ro 77 764
4	6.30.716	2 4	786	12 161		9 198				1 101	9 36 512	9 94 977 19 00 632
	6 9 8 9	7	1.2	1 7	16.36.14	11 038	830	7 983	: E	0	1 10 136	061 Ia ea
runk co t	\text{\text{Mount}} \frac{46.01.3}{11.0000} \text{\text{Pi}} \text{\text{Mount}}	6.9	18 489	2768	40 3417	111173	33 433	39.87	£4 963	r 63	(6 193	100
	20 63 0 30 15 510 35 43 495	34	16 991	11 008	36 91 918	1 9550 7 6 547	983 7 767 3 671	28.28	71 74 717 89 83 0° 47 1 °6 806	0 602 7 8°0 14 0°6	1 18 1°8 1 32 434 1 70 050	31 60 281 37 22 407
	_	-	- 1°	ov s nal		(E)	(u) Not a a blo					

APPENDIX AV Sources of imports of cigars into India and Burma

		2000	the state of state of the search							
					Imported from	from				
Ē		Ba	Empire Countries	168			Foreign Countries	stnes		Total
political	United Kingdom	Hong kong	Other Fmpire Countries	Total Empire Countries	Philip	Germany	\ether Jands	Other Foreign Countries	Total Foreign Countries	
				Onentife						
	e	2	£	e	2	4	4	a	₽	92
1939 31	1,721	862	673	3 256	21,316	338	6 062	1,540	29,258	32 514
1931 32	740	499	1 080	2 328	14 071	285	3,306	1,368	19 030	21,358
1932 33	4	147	8	682	10 628	341	2 301	1,078	14,348	15,030
1933 34	883	878	986	2,361	9,720	308	2,109	2,650	14,785	17,146
1934 35	909	}~	188	1,493	7,485	69	1,761	820	10,125	11,618
Average quantity Per cent	841	1,183		2,024	12,644	268	3,108	1,491	17,509	10 632

	420			
13,871	11,59,546 11,03,087 85,284 73,569 60,071	100 0	61,338 70,721	
12,626	18s 88,178 76,807 60,146 51,176	81,207	60 837 50 054 52,509	
£]	Re 6,128 8,255 6,723 10,058 5,386	7,490	080'0	
2,334	18, 38,117 20,597 18,072 16,293 16,293	21,947	19,774	
8	Ra 1,020 1,803 1,820 2,100 572	1,643	483	
8,704 9,618 8,758	Ra 83,561 57,523 49,592 31,032 28,025	60,127	32,660 32,220 33,087	
1,016	Value Re 20,820 15,489 8,477 13,423	15,400	9,014	
674	18s 2,432 1,007 341 968 3,160	3,645	2,414	
	Rs. 4,680 2,621 740 2,473]]	-
465 671 10,867	184. 22,709 11,901 7,390 9,982 6,045	11,765	6,600 7,818	-
:::	: :			
'::	: .	amount Se	035 36 1036 37 .	
1035 36 1936-37 1037-38*	1930 31 1932 33 1933 31	Avorego	1035 36 75 3691 75 3501	

			Total				=	189 618	179 173	49 000	10 01	61 7*3		17171	-	
					,		=	1 NG7	H 317	1187	4 7 19			7 401	4 4	
	11 u		· -	-			=	*1	Ξ	=	2	78		80	_	
	11		_	< 4			=	-	z	<i>y</i>	4177	12.5		7 78	1 1	
IAX	1	-						17 78	-		AF 812	7 - 7		- 84	69	
ALLI NDIX XVI	, ,	- 1	ĸ			Q and y		_	_	×	11	τ		181	~	
	1 1						-	_	_		¥	x	1	181	æ	
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	ь															
	ì		-		-		;	T	F 11 3	11.001	10 7000	97 1	CO antiley	to mps		

APPENDIX

Vanihly export and a sport trade on tobacco at stations adjacent to

				I	M P (RT					
Months	1930 3	1 1931 ;	1930	33 1933	34 19	34 35	Aver	age 193	5 36	936 31	1937-1
Apr 1	8 87	3 93	16 10 2	85 13	519	5 686	9 5	69 18	836	9 83	7 12
May	11 23	9 98	17 5	16 11 5	76 1	5 458	133	53 15	061	9 9.4	12,82
June	29 300	14 79	17 5	02 193	88 13	234	174	43 14	161	14 257	92 79
July	24 985	18,50	2 04	4 5 9	68 6	723	15 50	9 14	513	9 336	23 06
Angust	8 066	6 293	17 40	7 83	70 3	755	8,77			2 892	10 834
September	10 918	5 377	14 99	7 700	4 1	928	8 03	1	- [3 491	4 938
October	8 702	8 347	9 83	7 33	1 2	519	734	1	- 1	108	5 6 2 3
November	7 113	11 513	7 517	7 17	1 4	175	7 499			613	6,348
December	6 195	9 084	6 208	5 776	. 24	6	5 938	1	1	765	6014
January	4 548	8 006	2 718	1 852	22	64	3 878	5 06	1	689	4.081
February	2 201	4 759	3 708	1 973	21	34	295	3 004	1	885	4 859
March	4 00	6 243	6 914	3 372	9 05	9	5 963	3 646			5 969
Total	119 336	112 266	136 574	92 706	70 40	1 10	3 250	116 984	99 8	10 11	4 472
Block A*	7 411	7 739	3 894	3 591	6 46	1 5	819	8 484	5 43	8	4,443
Block B*	71 49	76 468	86 717	41 453	24 615	60	148	64 384	63 19:	6	085
Block C*	40 430	28 068	45 963	47 669	39 319	49	288	41 096	31 173	41	939

^{*}A Block A compr sea the ra lroute with b furcates into the Nushk Durdap extens on and the trade Block B compr ses the trade through the No h West Front e Prov nee and the I unjeb a th

^{**}O Block Compr see the trade through the Un ted Prov ness B her and Or and Bengal and Assem. tProv a onal

ALPLNDIX.

Von h.y export and import i. d in 17 od (In

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	1			1 3	1 0 0	т			
ڪ يند		1 1 3	1033	1733 3£.	131 ~	Aren~	193 - -6.	19.63	16-
4		23 11	5 43	6 1	-	2.5		4.1	£ 3
Lav	:	3 11	6 •13	- 5	1	128			62
Jame	61	1 6 -	2,16	\$1*	, sos	-	g.a	012	9
Jr.v	1 6	1 3:		9.2	267	531	64		2
Angust	<u> </u>	1 11	13	234	8	100	*7	J	2
>eptemb=	Ì	63		3 -6	69	118		,	
O-tober	1 .	s ' 23	48	143	16	46			5
Yorember	1 -1	50	9	1	3	96			1
Descript	! **	.' -	110	148	3~0	235			6
Ja_parv	1 -	e.	23	5		19		1*9	15
Februare	99	25	115	1	1	1 1	~ 6		35
Yı-b	, 6	3 1	≛ 6	s		~8	1	30 l	1
Total	2,153	* 459	3.25-	4.00	1,400	* 652	16	L1	1,6
Einck D*	11-يث	1,687	1,629	1,4.	13.2	·-	LAS I	ا الس	1,648
Block I'	233	33	ا ما	2.79	65	9-4	æ	1	
Slat F	-43		250	14	Ċ	182		1	13
						E I D	- 1 E.s.	no. A. w	end Les

*H. I D.— I Flamo d. v-wad *Look F.— I Kasho H he and *Mack F.— It Thin an insur-Po visionia.

APPENDIX XIX

į	Exports	dizports of unmen. Inclured and metulaclured thansalkrough the ports of breash indea and burma	ared and met	nfactured toh	reca through t	Ac porte of is	rush i have o	ing Burma		
		•	O ant ty (lb.				Δ.	Value (Ra)		1
Pertod	Unmant Is tured tobacen	C gare	C garettes	Other sorts of manufactured to bacco	Total	Lomanu factured to bacco	C gara	O garettes	Other sorts of mean fact red tobacco	Total
925 25 926 27 921 25 929 30	37 164 250 28 852 936 28 857 669 32 837 669 32 832 102 28 972 707	403 109 250 716 281 502 260 370 280 604	144 687 235 050 288 155 284 077 292 810	307 023 384 911 589 163 422 847 623 0 5	28 048 060 29 703 613 29 246 489 33 809 396 27 069 356	1 05 08 396 97 09 411 98 67 840 1 2° 61 802 89 48 387	3 68 862 3 30 338 3 01 318 2 85 808 2 98,724	1 02 914 2 99 914 2 69 39 2 79 860	99 845 1 37 552 1 55 931 1 29 685 1 16 076	1 17 40 017 1 04 15 226 1 06 13 308 1 29 47 034 1 06 42 057
vernge An h nt	30 613 746 96 8	303 200	248 976 0 8	445 403	31 611 384	1 01 07 169	317 010	2 49 731	127618	11151528
930 31 921 32 923 33 933 34 934 35	25 426 638 25 426 638 20 59° 804 20 206 4 0 26,349 287	219 762 117 531 80 947 61 284 70 401	342 087 312 003 261 361 2 7 650 304 603	560 273 404 184 375 538 431 490 652 803	29 092 632 26 261 249 21 622 6 0 29 9 9 900 27 317 084	96 72 541 80 61 26 73 40 921 90 13 004 77 5 255	2 45 669 13 780 95 050 84 845 85 542	3 16 445 2 65 584 2 12 351 2 13 351 2 51 02*	1 30 391 82 363 62 634 69 214 99 541	1 03 65,043 85 42 489 77 10 856 93,79 867 81 00 360
werns { Am unt	25 969 140	11" 473	296 300	484 858	26 862 701	83 68 UG9 84 7	1287 6	2 51 043	88 629	88 37 117
935 38 937 38•	28 742 628 28 526 804 35 337 501	73 356 69 623 62,018	328 575 372 111 418 760	453 541 346 770 566 401	29 598 100 29 304 308 36,984 680	87 95 686 87 75 577 109 36 977	1 01 198 79 813 95 882	2 85 278 3 40 414 4 98 204	61 045 55 292 97 893	92 43 207 92 51 096 116,28 986
				•	Prov s ond.					

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Biotement showing the exports of unmanufactured tobacco from the ports of different Indian provinces and Burma

(Quantity in lb)

				(Qu	antı	ty in lb)					
Year	Ber	ngal	Mac	dras	Bos	nbay	SI	nd.	В	urma.	T	otal.
1925-26	7!	533 051	12,	238 294	4	63o 564		34,592	12	,691 74°		193,250
1926-27	2	\$55 60 4	13	617 844	4	89° 388		8 896	7	808,204		889 936
1927 28	4	664 517	11	074 75	6	,893 980		41 748	5	412 649		087 669
1923-29	3	923,296	15	306 465	8	631,370		85 240	1	L,985 31	١	932 102
1929-30	2	,988 963	1	4 467 411	٠	198 "23		58 960		4,258,710	2	5 972,767
Average.	-	4,333 086	\-	13 35° 958	-	5 850 4 0a		45 887		7 031 409	3	0 613 745
1930-31	+	4,196 333	-	15 961 580	-	5 176 34	3	47 036	;	2 589 219	1	27 970 510
1931-32	1	2.846 32	1	14,524 910		4,298 6	9	30 99	2	3,725 727		25 426,632
1932-33	1	2,587 60	-	12,281 09	1	4,8 5 20	77	6 57	0	1 149 31	1	20 89° 804
1923-24		2 500 9	- 1	19 850 08		5 605 8	10	14,39	2	1,235 26	8	29 206 470
1934-35	1	2 192 6	- }	16,3°8,1	- 1	6 0°4,9	12	21 00	ю	1 8° 50	3	26,349,287
Average		2 864	769	15,789 1	69	5,19° 1	196	24,0	oo	2 090,00	07	25 969 141
	_				-	7 395	259	99	12	93 0	04	28,742,628
1935 36		377		20 0%		8	1	301	12	523 1	"1	28 525,804
1938-37		1	923	1		7198		18	101	1 105 9	96	35,937,501
1937-384		1 1:				•Prov and	ma).	<u> </u>				

APPENDIX XXI

Destinations of exports of unmanufactured tobaccoft on Ind a and Burma

		É	ē		я	27 970 510	25 426 632	20 892 804	24 206 470	26 349 287	25 969 138	100 0										
	į		Total Fore gn Countr es		æ	7 841 880	5 275 770	5 689 520	7 524 990	7 560 096	6 778 462 26 969 138	26 1										
	ļ		Other Fore gu		2	637 279	512 575	854 031	332 301	157 785	408 704	1.0										
		mat es	Belg um		£	1 022 182	118 318	24 188	367 265	83 325	323 055	63										
		Foreign Countt es	Netf er Innds		a	2 341 401	945 359	1 668 619	3 512 446	1 420 307	1 977 244	1.										
			Ларап		91	3 840 958	3 699 518	3 144 662	3 312 988	5 809 679	3 979 359	16 4	Γ									
	Exported to		Total Emp re Countr es	Quant ty	9	20 178 630	*0 150 862	15 203 284	21 081 480	378 213 18,789 191	283 412 19 190 686 3 979 359 1 977 244	73 9										
. :	Expo		Other Emp re Countries		ę	140 260	157 381	147 034	594 176	378 213	283 412	-										
		untr es	Hongkong		e e	916 936	2 649 514	428 406	711 840	1 185 913	1 178,539	4										
		Emp re Countr es	Federated Melay States		4	1 233 337	73. 8.0	386 221	611 931	680 089	711 245	61										
		Ωm	Emp	DmJ	Dmj	Dmi	Dmg	Стр	Стр	Emp z	Emp	Stra ta Sottle ments		e	2 618 072 1 233 337	1 655 399	800 867	1 166 769	1 236 386	1 455 498	9 20	
	 	} }	Adea and Depend one 89		φĪ	6 364 468	4 427 350	4 394 177	5 397 696	6 039 537	5 104 633	49.7										
			Un ted Kungden		£	9 955 617	10 6"5 558	9 046 489	13 209 068	9 260 063	Q an 10 437 359	6 07										
			Frnod			830 31	1931 32	1932 33	1933 34	934 35	_	Age Per										

	433			
28 742 028 28 526 804 16 937 501 18	00 72 511 80 61 726 73 40 821 00 13 004 77 65 255	100 0	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0 NUZ 622 28 4 386 607 28 3 809 601 35	(2 4	15 53 520		
171 0400 0 002 622 29 742 058 004 175 021 003 175 001 175 027 001 175 027 001 175 027 001 175 027 001 175 027 001 175 027 001 175 027 001 175 027 001 175 027 001 175 027 001 175 027 001 175 027 001 175 027 001 175 027 027 027 027 027 027 027 027 027 027	80 00 EEE	1 19 038	34 100 37 101 68 048	
0 0 8	145 212 28 125 5 785 58 575 10 864	61 708	1 795 3 410 1 550	
231 (04	Ne 2 50 520 1 29 620 3 50 440 4 10 283 1 96 141	2 73 204 3 3	2 01 467	
670 670 644 610 123 1 610 424 6 9 123 1 610 123 1 610 424 6 1 123 1 610 424 6 1 1 181 872 873 873 873 873 873 873 873 873 873 873		11 00 770	10 78 201 0 40 800 3 12 010	
740 H G 5 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C	IIs Re 77 07 221 14 04 200 67 00 684 10 00 782 67 57 942 0 45 001 74 48 227 0 87 700 63 75 700 11 14 058	81 4 13 3	1 46 662 74 79 634 2 11 652 78 76 970 4 23 567 104 10 304	Provisional
440 015 1 24 021 001 24 188 898 32 Value	13	91 640		-
4 860 481 161 111	78 1 03 855 232 390 38 383 55 007 65 55 007	1 2	30 700 240 3 37 816	
677 382 706 183 791 832	116 4 50 840 3 04 778 1 57 175 1 50 188 2 03 070	2 54 462	4 2 10 765 4 2 10 765 3 2 50 343	-
	EA 0 00 120 0 10 828 1 00 314 3 87 006 3 72 600		3 70 540 4 3 40 544 52 4 0 2 703	-
7 315 462 1 071 861 8 716 328 1 112 8°2 7 182 288	188 24 08 012 16 80 682 16 86 016 19 66 03)	10 65 352	46 36 274 22 21 075 50 28 500 20 46 654 75 27 413 17 66 402	_
11 102 180 7 515 462 1 071 861 1 112 8°2 1 112 8°2 1 202 468 1 202	982 2 3 069 3 440 34 190	98 80 230 46	46 36 274 50 58 500 75 27 413	_
002 152 14 002 152 14		semo nt	00 aros 36 1076 37 387 1781	
1937 36 1930 37 1937 38*	15 0101 27 1501 17 2101 17 5101	Aver San Aver	1974	į

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APPFNDIX XXII

Matement showing the exports of cigars from the ports of different Indian Provinces and Burma

(Quantity in lb)

Year	Bengal	Madra*	Bombay	Sind	Burma	Total
1925 26	3 234	75 279	9 363	106	315 127	403,109
1926-27	60	67 141	11 311	28	212 176	290 716
1927 28	142	67 069	7 396	5	206 890	281 502
1928-29	62	66 328	5 490	Ì	188 490	260 370
1929 30	30	68 913	6 028	2 344	203,291	280 604
Average	706	68 946	7 917	497	225 195	303 261
1930-31	60	65 878	3 385		150 439	219 762
1931 32	300	41 978	2 592	1 616	71 045	117 531
1932 33	7 395	28 472	4,171	12	49 897	89 947
1933-34	595	24 149	2 224		37 316	64 284
1934-3	2 967	26 303	3 498		37 723	70 491
Averago	2 263	37 356	3 174	326	69 284	112,403
1935 36	280	18 892	2 658		51 526	73 356
1936 37		19 943	2 483	1 938	35 259	59 623
1937 38*	11	21 630	4 162		36,215	62 01 8

*Prev s ona!

APPINDIX XXIII Destinations of exports of cigate fram India and Burna

		T	bestanations	of exports o	Destinations of exports of course						
					L'xporten 10	-	-	Torour Countries	ntraca		
1			Tamiro	Temple Countries						1	Total
									Other	Total	
D 2	United	Adon and Depend enoics	Coylon	Straits Sottle ments	Other Frapire Countrie	Total Frapire Countries	Iraq	Sinm	l ore ign Countrie	Countries	
					Onantity.	<u> </u>					
Ļ								£	2	2	e.
	£	£	e	9	<u>.</u>	9	0000	20.581	12 544	35 404	219,762
	45 449	6 675	12 447	116 090			2 300	4.092	12 240	17,976	117,531
	24,375	2,495	11 865	58 062		_		797	5 107	9 443	89,947
	20,206	3 000	17 679	27 810			1164	207	1,614	5,980	61,284
	14,133	4,769	11,983			02,304			2448	6719	70,491
	37,144	4,652	7,084	11 512	3 580	1	1	1 9	7 408	14 921	112,400
CQ santity	1	3 4,480	0 12 380	4	ei -	0 97,479				13 3	100 0
Per cer t	30.3	3 3 3	9 11 1	4		ľ	100		1 953	4 146	73,356
	42 700	6,252	52 10 070	8 8 64					1 908	6 272	50,623
	29,154	54 6,645	45 9 679			26 03 301			2 001	6,732	2 62,018
	32,646		4,128 11,250		4,033 3,2	3,220	_			-	
	_	-			*Provisions	ione.					

APPENDIX XXIII--concid
Destination of exports of contact from India and Burma

ł			I		99	9	3 5	3 \$	2 5	2 E	ę <i>c</i>	- :	86	13	82
_		Total.		Ba	2.45.668	1 29 780	05.060	24 64 8	04,040	1 00 200	7,02,	100 0	861'10'1	79,813	95,882
		Total Foreign Congaries		Rs	41.210	99 189	11 214	0.470	200	100	10,418	14.3	609'9	6,016	10,282
	ountnes	Otaer Foreign Countries.		Rs	16,820	15.479	5 244	5 993	3016	949	O. F.	•	}	. 28	2,784
	Foreign Countries	Susm		Rs	19,687	4.042	858	666	2	4 079	3 6		3,123	3,326	o र
	j 	Iraq		Rs	4,703	2,668	5.248	2.193	5.276	4.017	3	9 450	000	2,690	7,498
1 ts		Total Empire Countries		Rs	2,04,456	1,10,591	83,736	76,367	76,338	1,10,297	2 98	94.589	2001	73,797	185,600
Exported to		Other Ex.pire Countries	Value	Rs	6,844	3,848	3,272	1,830	2,919	3,742	2.9	3.301		3,896	4,094
	ntries	Straits Sottle ments		Rs	1,09,682	58,269	24,088	4,615	7,958	40,922	31.8	4,776	0 100	2014	2,948
	Empire Countries	Crylon		Rs	14 518	13,276	15,046	16,320	11,609	14,163	10 9	16,533	18 089		25,198
		Aden and Depend encies		Rs	101,6	2 939	6,239	6,088	6,726	6,018	4.7	8,521	9.941		9,220
		United		Re	64,311	32,259	36,091	47,514	47,128	45 462	35 4	61,458	40,785		ce 199
		Period			1930 31	1931 32	1932 33	1933 34	1934 35	Aver Amount	Per cent	1935.36	1936 37	1937.38*	

APPENDIX XXIV

a	estinations o	f exports of c	garettes from	Destinations of exports of eigarettes from India and Burma.	ma.			
			Lep	Laported to				
			Umpire Countries	trios				
	Ì		-		_			E
	Coylon	Straits Settlements	1 derated Malay States	/anzabar and Pemba	Other l'mpire Countries	Fotal Fmpure Countries	Total Foreign Countries	Total
							1	
				Quantity.		_		ź
			:	£	a	લ	q	3
	શ	<u>e</u>	a 		92.	340,890	1,188	342,087
	185 677	81,829	04 220	_	Cart.	919 009		312,002
	607 103	02 903	86,853	7,273	4 300	314,004		196 1961
	121,121			0,860	3 933	264,103	- F	100,102
	76,161		· 		1.370	267,564	æ 	267,650
	140,902	2 44,456				303,735	108	304,503
	203,708	8 18 554	4 77,787	14.11	1	ļ	444	296,299
	66.27	60 013	79 723	3 4,621	3,197	293,800		
	040,011			16	1.1	0 00	0	_ļ
	49 1	7 77			144	328.493	83	328,675
	227,050	15,390	96 82,785	6	}		-	111 926
	201.507	07 7,049	49 67,284		6,219	371,689		_
	320.333		87 47,406		45,738	418,564	196	418,100
		_						

1030 31 1031 32 1032 33 1033 34

APPENDIX XXIV—comeid
Destina sons of exports of c garctles from Ind a and Burma

			Exported to	d to				
			Em re Court es	8				
Penod	Ceylor	Stra ta Settlements	Pederated Melav St tes	Zanz ba and Pemba	Other Fmp e Countr s	Total Fmp ro Countr es	Total lore ga Conres	Total
				Value				
_	Re	R	Ж	Z.	Re	SI.	Z	Ħ
1930 31	1 94 349	58 497	51 747	4 550	5 710	3 14 853	1 592	3 16 445
1931 32	1 19 675	66 401	70 268	6 150	4 100	2 6. 594		2 65 594
1932 33	66 536	55 985	82 252	4 650	2 9.8	2 12 291	9	2 12 351
1933 34	1 13 725	31 995	63 156	2 400	1 487	2 12 763	17	2 12 804
1934 35	1 60 408	14 305	72 163	1 750	1 749	2 50 465	267	2 51 022
Amount	1 30 956	46 418	67 917	3 700	3 200	2 51 191	450	2 51 641
Average (Per cent	0 22	18 0	27 0	1.5	13	8 66	0.2	100 0
1035 36	1 93 793	10 110	78 078	1 600	1 582	2 85 163	115	2 85 278
1936 37	2 59 011	7 168	66 746	7 224] []	3 40 149	265	3 40 414
1937 38*	2 85 644	2 087	47 126	160 170	2	4 98 026	178	4 98 204
			,					

· Prov stonal

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		Total		£	2 1	14 331	19 659	8 812	7.416	. !	40 153	18 07 4	100 0	10 736	0 752	117.8	
Il rma	-	Foreign Countries		_	<u>_</u>	4 052	4 364		200	2 676	21 631	6 871	38 1	6 472	120		4 708
India and II rma	The state of the s	I mpire Coi ntrice			19	10 270		15 140	7 179	4 740	18 122	11.183	6.19	100	*	0 081	4 003
xxv act red tobacco from 1 xported to		Total	+	Quantity	-	: 0	690 2	2 480	17 645	18 612	481	901.0	0710	0 001	201 120	4 130	47 501
APPENDIX XXV	Unmanufactured Tol acco	Foreign			-	 e	2 009	2 489			8 411	3 896	3 37 3	37 0	61 190	4 200	361
AppigNDIX XXX Re exports of unn an fact red tobacco from Indea and II rema- Re exports of unn an fact red a d man fact red tobacco from Indea and II rema-	Themon	Fmpire	Countries		_	19	_			11 040	10 201	910	6 753	63.0		440	47 140
		Period						1930 31	1031 32	1912 33	1033 34	35	COuntity	Average A Pos cont	7	1035 36	1036 37

47 140

1937 38* 1035 36 1936 37

APPENDIX XXV--concld

Re export of unmanufactured and manufactured tobacco from India and Burna

		Expoi	Exported to			
	Unman	Unmanufactured Tobacco		Manufa	Manufactured Tobacco	
Period	Empire Countries	Foreign Countries	Total	Empre Countices	Poreign Count 1rs	Total
			Value.	10.		
	Ra	Ra	Rs	Rs	Rs	R
1930 31		3,541	3 541	33,050	22,556	55,606
1931-32		2,061	2 061	43,649	17,698	61,347
1932 33	2,183		3,183	23 084	6,991	30,075
1933 34	19,256	12,403	31,659	16,304	9,021	25,325
1934 35	200	\$ 074	3,574	65,720	61,589	1,27,309
Average Autount	4 687	4 215	8,804	36,361	23,571	69,932
Per cent	62.1	47.9	100.0	2.09	89 -3	100 -0
1935 36		34 581	34,581	16 437	32 001	48,438
1936 37	450	£ 623	3,073	19 685	16,144	35,829
1937 38*	31,499	440	31,939	14,980	10,075	25,055
				_		

APPENDIX XXVI

		AP	PE'	DIX	X.	KVI				_			
Annuai net	avai	ilable 81	uppl	res of	all	type	s of	tobac	co 111	Indi	a		
_			(T	bousan	_	_	-	1934-		1935		1936	37
	193	1-32.	193	2-33	19	33-3	-	1934					,240
Gross production*	1°	27 520	12	2,320	1:	30» 1	920	1153	,600	142	228	1340	
Net production* available for consumption and ex- port after allowing **000 for drage and waste in magnifacture		982,016	10	017 856		1044	-36	9 25	2,880	114	3 382	107	6,992
Imports— By sea from foreign coun	1	5 809		8 "35	T		g 461		6,152		4,303	<u> </u>	5 617
tries	-	2 45	+	4,18	3		6 716	,	2 271		1 872	_	3,610
By sea from Burma	+		+	11 24	10		7 63	 0	5 ~9		9 6**	5	8 915
Byland			-				20 80	_ 17	14 21	7	15 80	a	17 442
Total		17 4	99 <u> </u>	24,1	62	! :				+		1	
Exports and Re-export						1	28,7	21	25 6	9	28,6	1	28 763
By sea to foreign co tries	un	22	9	*0		<u> </u> _			13 2	49	13 5	82	15,461
By sea to Burma		15	504	10,	102	: ' 	128			104	9	03	9 230
By land		11	011	9	23	, -	8	773		-		906	53 454
Tota		-	 8,991	4	4,81	6	50	990	47	96"		-1	
1013			_	+-	0 6	31	20	488	33	-45	36,	100	36,012
Excess of exports over	T I III		1 49	-			104	1,"36	922	,880	1143	387	10 6 99*
Production available consumption.	for	9	8° 01		17 8	-		5 248	88	9 130	110	, 9~7	1040 980
Net supply available consumption.	for	- \ •	50 5	``_	97 :					6	3		2 9
Net supply available capita in lb	e pe	,	28	1	29	· 		h year	r are t	pose o	the	prece	hng year 1

[&]quot;The statutine of production mentioned against each year are those of the preceding year is order to correlate them with export and import against

APPENDIX XXVII

(Thousand Ib)

	1931 32	1932 33	1933 34	1934 35	1935 36	1936 37
Gross prones on*	109 760	87 360	87 360	100 800	109 980	03 044
Act product on* ava lable for consumpt on and ex port after all owing 20 % for drage and waste in manufacture	87 908	69 888	69 888	80 640	80 784	82 432
Imports—				-		
By sea from fore gn coun tr es	97	61	72	141	220	101
By sea from Ind a	15 504	15 122	12 801	13 249	13 582	15 461
By land	203	275	332	118	95	125
Total	15 804	15 458	13 205	13 508	13,897	15,687
Exports and Re exports-				_		
By sea to fore gn countres	3 810	1 193	1 273	1 821	1 045	560
By sea to Ind a	2 451	4 183	6 716	2 271	1 872	3 610
By land	186	79	121	176	308	430
Total	6 447	5 455	8 110	4 268	3 225	4 600
Excess of mports over ex ports	9 357	10 003	5 095	9 240	10 672	11 087
roduct on available for consumption.	87 808	69 888	69 888	89 640	80 784	82 432
Vet supply available for consumpt on	97 165	79 891	74 983	89 880	91 456	93,519
Set supply available per capits in lb	8 6	60	5 6	6.6	6 6	6 7
* The stat at as of produc						

The stat et cs of product on ment oned aga not each year are those of the preceding year is order to correlate them with export and import figures

Other tobneso I reducts | All tobaces products. Ushmated consumption of tobacco products in India and Hurma in 1914 35 APPENDIX XXVIII

						•							. ,			
		ler capits	<u>.</u>	3 103	1 888	0 037	3 147	64	100	-		2 574	2 915	183	_	
	-	Q rantity	 :	27 947 5C8	153 312 520 112 372 721	14 976 234	171 512 306	40 0 10 275	2 3 063 810	7 650 0 2	4 112 (66	10 401 618	1 016 203 310	86 87 1 007		
	1	perceptite		1 5	555	10		1 970		1 000	-	925	, 1,		_	
Other tobasse I read	-		a	1	20,276 802 142 795 374 105 828 700	46 267 020	70 242 876	15 663 312	9 208 378	3 008 358		8 705 5 30 9 571 778	71	8 10 100 130	_	
_	<u> </u>		802	卞	855		918			28		355	-+	_	470 476	
		I or capita	=	: 1	0 002	0 477	0 179	000		0 0 0		0 000	0	-		
	Milita	-	Quantity	1	0.700.080	4 805 400 8 010 140	2 870 000	3 075		3 423 512	0.001(0.01	3862 811	3 11 449 154	53 68 687 924	247 0 470 908	-1
-		1		So.		. "	-	372	· 	001		•	000	202	5	-
	1 cheroot		Locarbia	4	* 6		0 00	1 861	0	•	•	0	-00	0 808	900	-
	Cigars and cheroots		Q tantity	e		968 760 8 528	60 270	80 631 080	20 418	60 024			20 5.0	18	45 73 062 000	_
T Of the same	-	1	-	Nos	1=	22	12	2	នន		288		308	4	1	_
1		2	Per oapita	 _a	1	200	0 118	0.028	0 063	0	318	۰ -	000	1	٥	:
		Cigarottes		Quantity Ib		2741 500		701 674	200 CK 0	012 7 12	281 834	1 312 000	118 481	3 067 17	20 010 31	1 731 840
			Province or State			Assem	B her and Orlwse Bomb y	Central Province and	Madens P	I unjab	S n l Unitr i Provinces	Mram a Bominiot	Kashmir Mysore	Travanoste Otl er arces	Ind a	BurmA

Ne account has I orn tal or of it e extremely small quant by of manufuntered pupe and out volusion consumed in it e country Nore—Outer tobacco products comprise of manufactured horkan and chewing tohaccos and snull

444

Importe of unmanufactured tob acco in the United Aingelon. AITH NIUN VVIV

	1037	1	2	2 ;	4	» ;	e -		22		208		212	692
	1930		- 4	: =	2 5	2 5	-		2		F 10		210	272
	- <u>-</u>	1		_	_			4	1			-	_	
	1035		2	91			-		٩	ę.			207	362
	1934		or	2	æ	10	-	9	40	180			TAI	230
	1033		13	g	14	10	61	9		100	61	185		112
nlb)	1932		0	15	=	=	eı	188		125	ea .	100		175
(In million Ib)	1031		a	Ξ	9	0	c1	=		167	es	15		191
	1928		9	23	e	8	e	2		172	69	122		218
	1028		8	1	69	-	-	9		103	-	170		189
	1022		-	-	-		-	=		17.1	10	172		185
	1910		7	e			-	=		310	22	133		349
	Countries	Amy we Countries-	Bettelt In ha	Ny nandrad	Cann to	Piho I sua	Others	L tra)	Porce ya countre +	Unite ! States	Others	Total		Total Imports

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APPFINDIX XXX.

A Journey and Foreign unmanufactured tobacco in the United Kingdom.	an unnanufac	tured tobacco	in the Unit	ed Kyngdom.			
Consumption of the consumption (Dollvork a from bond for home consumption)	om bond for	. ното сопи	mptlon)				
Ē)	(In thousands of 10.)	ot 10.)	-				
Country of origin	1031	1932	1933	1934.	1935.	1930.	1037.
						90.	14 363
	9,125	0,380	0,487	9,567	118'6	20041	201
British India	4.867	0,720	8,974	7,772	8,433	8,788	8,801
Canala	008	180	1,061	178	683	674	746
Northern Bhodesta	0,251	7,804	8,002	9,275	0,057	11,202	14,148
Southern Itho lenin	10.497	10 915	11,677	12,173	12,105	12,255	12,176
Nywasiand	057	151	466	442	408	378	284
Britian North Bonne Other Propine countries	202	020	623	538	517	902	675
Total I mpire Countries	12 78.2	070 At	40 8H0	40 545	12,001	45,588	132,13
	1	-			1	-	1
Foreign countries	117 051	11,249	109,230	117,815	121,914		131,146
Total	149,833	149,219	149,110	168,360	16 1,998	174,296	182,300

Average monthly wholesale prices of flue cured Virginia eigarette tobacco at Quilur APPENDIX XXXI

						**	·U									
			M	2	2,0	26.5	26 6	16 6	13 3							
	1935	Firm II	Max	Pg.	0 68	30 0	90 0	21 6	8							
	-	-	Min	ž				110								
		Firm I	Max	2				13 3								
		n	Млв	2	200		16 6	8	9 9							
		Firm II	Max	ž	26 6		21 6	16 6	10 0							
	1934	_	M.	ā	9	9	4	12 5	10 0							
		Firm.I	Max	2	0 9	0 9	9	18 3	15 0							
_	-	=	a M	ă		16 6		16 6	13 3				8			
(Per maund)	,	FrmII	Max	2		25 0		23	21 8				16 6			
(P	1933		Min	2	9 9	80		0 0	1.6	8.0	0 19	80	0 2	60	83	33
		Fire I	Max	Ra	2 6	9 9		19 0	0	0 9	9 9	63	9	9	4	0 9
		Pres II	Жп	2								_				
		Par I	Max	å							_		_	_		
	1932	ایا	Kan	å		۵	14 0	14.0	16 6	10 0	0 0	8	9	89	8	9
		FrmI	Max	a	10	9 22	21 0	21 0	20 0	12 6	8 3	0 6	11 6	8 0	8 0	9 9
		1931 Average		Z.	8 3	7 6	11 6	15 0	110	10 3	8 3	6 6	12 0	16 8	0	13 0
		Months			January	February	Maroh	April	May	June	July	Angust	September	October	November	December

A 29 vall | 1 | 801 price 3 of raw country (Natus) tobacco at Guntur

			- 1			ı		٠	Lo.	(Per maund)	÷			į				1	-1		j			- 1
	_		1032				_		1903	ļ				10	1934					1035	Je .			
Month	vno	Cary ty	S.	Qual ty		on I to	Qual ty		Count ty	=	Qual ty		Quality		Quality		Qual tv	3	<i>></i> _		Qual (-°~	Quelity	١.
	Mav	aufé	7.814	1.1/	xal/	л а	xel/	Ain	181/	N. I	Max	Mez	i mV	xel/	_nulf	xeg,	t Pe	Mex	a M	Zall	1	1 24	Zelf	π
•	å	ā	ם	<u>=</u>	2 P	å	- 2	2	- 3			귈	ž.	å	å	ž	죑	£	2	ž	_	Ra Ra		å
Ja uary	2.	9 87	=	9 16 9	70	9	-	7	- 69	9	-0	•		5	2	60	2		_	œ	-8	_	8 0 4	0
Fel roary	14 0	13 6	Ξ	و م	7 2	9 9		-	8	9	~	•		_			_		_					
Vareb			_	_				_		_		_			_								_	
April							_	9	9	- 0	20	-			_			13 3	2	2	0	10	10	0 9
May								-	2	8	0	0		20	0 0	0	9	13	0 0	0 10	-	29	10	9
Jue	13 3	12 6	Ξ	8 3	3 8	9 9			-	0	3	10		9	•	•	33	13 3	2	2	0	80	- 63	70
July						_															_		_	
August	13 3	12 5	2	8 3	7 6	0								9	- 4 0	9	e0 e0						_	
September	_		Ĕ	83	3 8 3	8.0	_		20 2	0	er	10	_	8	9	0	4 0			2	- 8	3 10	9	×
C etober			-	10	0 2 0	4 0				çı	- 9	9								a		-	- 0	100
November			ø.	8	9 9	0 9 9			0 9	0	- 29	10											_	
December		_		-	- 2	8 60	_	_~	4 0 3	8	0	10	_	9 9	9	0	<u>ب</u>			*	8	6 7	10	0 9
		Ì			-							_							_	_	-			

450

APPFADIX XXXV

4 remove merti ly prices of eiger and eleroot tobaccos in West Godavars (Per maurel)

			. —			
Par.hs.	1931	1932	1933	1934	1935	Average
	Es. A P	Rs A P	Rs A P	Rs A P	Rs A P	Rs. A P
January	23 5 10	28 12 9	23 5 10	11 8 4	15 10 1	20 9 1
February	23 a 10	28 19 9	10 11 2	11 8 4	15 2 3	17 15 0
Earth	23 o 10	24 3 0	10 11 2	9 0 10	15 4 10	16 9 11
April	22 3 5	23 13 9	lə 10 1	12 5 6	15 15 5	17 15 0
74.6	20 3 10	2a 8 1	14 5 1	12 5 6	17 4 5	17 15 0
June	90 3 10	°0 8 1	12 5 6	13 7 11	18 1 8	17 15 0
July	20 3 10	25 10 6	11 8 4	1 01 a1	18 1 8	18 6 11
Augus	22 3 0	' 2 a	11 8 4	17 4 5	19 14 7	19 9 4
Sertember	21 14 2	2" 2 5	11 8 4	17 4 5	20 9 1	19 11 11
Oc.0,42	21 14 2	- 2 5	11 8 4	17 4 5	20 14 4	19 11 11
November	26 13 2	28 1° 9	9 0 10	17 4 5	20 1 2	20 6 6
December	ۍ s	25 l' 9	11 8 4	17 4 5	26 15 10	22 6 1

APPENDIX XXXVI

Arerage wholesale prices of cheroit tobacco at Coconada market

Baru Laulas (First quality)

	B	ıru Lanlas	mund)	,		
		<u>-</u>	1935	1936	Average	1937
Months	1933	1934	1500			
	Rs A P	Rs A P	Rs & P	Ps A P	Rs A F 22 8 0	Rs A F 22 6 0
January	19 12 0	24 8 0	23 14	1	21 1 0	22 6 0
February	19 12 0	20		28 0 0	21 6 0	
March	16 8 0	1 -1	1	28 0 0	1	1
April	21 2 0	1 -0 -	0 1 24 0 0		21 12 0	1
May		1 20 0	٠,	24 0 0	1	1
June	1-0		0 (0 23 6	0 22 10 0	1
July	10 22	0 -* "	0	22 6	0 22 3 (
August	19 12	0 24		22 6	0 1 == -	o '
September	19 12	0 24 11	0 19 3	0 22 6	0 21 0	0
October	19 12	0 24 11		0 22 6	0 21 14	1
November	21 2	0 24 14		0 22 6	0 21 9	۰۱
December	21 2	0 23 8	-1-			

APPENDIX XXXVII

Prices of tobacco at Burirhat Farm (Rangpur) (Prices from the local sale of the farm proceeds) (Per maund)

Year	Sum: (a)	atra	Sur:		Suma (c)		Mam	lla	Pent van			88	Bhe	ngı	Mot:	
	Rs	<u>.</u>	Ra		Ra	Δ	Ra	A.	Ps	λ	Rs	à	Rs	À	Rs	٨
1924 25	120	0	100	0	50	0	80	0	80	0	80	0	10	0	10	0
1995 26	120	0	80	0	40	0	50	0	50	0	40	0	14	0	14	0
1926 27	120	0	80	0	p0	0	50	0	50	0	40	0	13	0	12	0
1927 28	120	0	S0	0	80	0	50	0	50	0	50	0	18	0	20	0
1928 99	120	0	80	0	40	0	50	0	50	0	50	0	35	0	Not gro	wn
1929 30	120	0	80	3	40	0	50	0	50	0	50	0	lə	0	12	0
1930 31	100	0	80	0	40	0	50	0	50	0	50	0	5	8	5	0
1931 32	50	0	30	0	20	0	15	0	15	0	15	0	8	0	8	0
1932-33	35	0	30	0	15	0	10	0	10	0	10	0	10	0	10	0
1933 34	15	0	15	0	10	0	10	U	10	0	10	0	11	0	و أ	0
1934-35	1		[ļ		ļ						8	9		
1935 36	15	0	15	0	10	0	10	0	10	0	!		8	13	ıι	8
1936 37	i		i				-				8	0	10	10		

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APPENDIX XXXVIII

Arerage monthly wholesale prices of Poola (Common) at Calcutta
(Per insund)

			_		_	_		_		_		_	_	_	_	_		_	-				
Lonida	-	1930	-	19	11	}	igs		19	33	1	18	34		19	35	1	19	36	1	19	37	
	1	Fa. 4	1	Р		-	Rs		8		1	Ra		1	Re		1	Re		T	Ra		-
January	- 1	17 6	, '	8	0		6 1	2	10	0		6	8	,	в	0	Ĺ	6	8	ļ	9	0	
P bruary	ij	16 8					6 1	i i	19	0		6	8		7	0	ì	6	0		s	0	
March	1	15 0	1	7	0		6 1	i	9	8	ı					ø		7	0	1	7	0	
April	ì	16 0	٠,	9	9	ł	6 1	1	9	s	ĺ		ø			ø		В	0	ĺ	8	0	
May		15 0		10	8	1	6 1	9	9	8			9			Ð		7	8	l	e	8	
June	- 1	15 0	ı	10	8	,		0	9	8	1	6	8			Đ		7	8	ŀ	5	8	
Jaly	- [15 0	÷	в	8	ļ		٤,	9	8	ι ,	6	8	ł		ø	1	8	0	-	7	ю	
Aurust	- 1	16 0	i	8	s		8	١,	9	8	. 1	ß	8		Þ	8	1	3	0	l	2	2	
September		1 0	,	6	8		8 1	'n,	q	8	ŀ	6	ø	í	В	8	1	9	0				
October	ĵ	13 0	Ċ	8	8	ł	8 (1	9	8	٠,	5	0	-	6	8	٤	9	D				
Agremler		1 0	í	6	8	ĺ	8 (Ιį	9	8		5	0		8	0	8	ì	8				
December		Ð		б	12		8 (1	9	8	1	5	0		8	0	8		١٥				
			_		_	_				_	_	-		_	_		_	_		_	_		

APPENDIA AVAIX
Monthly prices of tobucco (July at Progret (Fengal)
(Lee 11 m.)

						i	_	(ler 111 ml)	111	=																
Months			1032 33	8				1033 31	=			_	1011 35	£			-	1935 30	_				1936 37	33	ı	
	138 A	٠.		4	Ila A	122	-		Ž	Rs A	* ±	٦.		Ra ¥	٦.	2	١.	~	4 5	!	1 2	١.		1 2		
April	∞	0	5	2	0	2	c	ş	2	c	œ	0	٥	Z	0	ю	00	2	2		=		9	53	0	
May	0	0	2	8	0	_	c	Ş	2	0	80	c	\$	2	•	•	0	2	•		0	۰	2	2	0	
June	•	0	\$	œ	0	۶	0	ţ	2	1	0	0	٥	2	•	•				_	0	۰	2	2	۰	**
July	۰	0	2	20	0	٥	0	\$	13	0	9	0	ţ	2	0	4		2			2	0				04
August	9	0	2	œ	0	6	0	٥	2	0	0	0	2	2	•	Đ	0	2	8	-	=	0				
September	ន	0	٥	22	0	2	0	٤	5	0	0	8	٥	2	•	0		9	-	-	=					
October	2	0	Ş	2	0	2	0	Ş	12	0	0	s	¢	2	0	0		٥		-	=	۰				
November	2	0	\$	22	0	=	0	٥	2	0	9	æ	ş	Ξ	8	0		2	-	_	=	0				
December	2	0	\$	2	0	=	0	ţ	10	0	9	80	9	2	80	•		2		-	=	0				
January	ᄗ	0	\$	18	0	2	0	\$	10	0	9	00)	\$	2	0	0	0	2	90		=	0	•			
Pulmary	=======================================	0	2	13	0	2	0	\$	10	0	0	œ	9	Ξ	•	9	9	9	2	7	Ξ	0				
March	2	0	2	22	0		0	\$	16	0	9	0 13	3	9	•	Ξ		9	16	-	Ξ					

Acrops monthly wholends prices of everage quality of locally produced cigar and cheroot tobaccos in Henrada, Playet n, 10 and Pakaldu (Durma) APPENDIX XL

(Adapted from the prices published by 11 o Commissioner of Settlements and J and Records in the Burma Gazette) (Por maund)

	Ì		-	-	1								١.		
		Ha	Henzada				T	Thayetmy o					P koki u		
Months	1031 33	1032 33	1031 32 1032 33 1033 34	1031 35 1033 36	1035 38	21. 11.01		1012 33 1079 31	1034 33	1035-30	1035-30 (1031 32 1032 33 1003 34 1034 35	1632 33	1933 34	1034 35	1035 76
		2	å	2	E E	2	2	2	2	ā	2	ā	2	£	ā
Arrel	9		3.1	86	*				6.2	20	8 1	3.5	23	3.4	4 0
May	2 2	7		3.0	٠,				9	*	3.4	3.7	23	0.	9 7
Jine	8 0	7	;	23	20		_		63	20	3.4	30	31	7.7	4
Tuly	3 6	•	83	2.3	61					2 0	3.4	61	•	20	3 0
A gust	1.8	*	9.0	2.6	61	ř		8 0		6 9	80	-	9 7	9	3.0
Sert nater	63	*	3.7	8	61	6.4	0.1	7 3	5.7	8	20	2 3	9	63	3 9
October	2.5	÷	- 33	- 24	61	9	10 3	0.4	2	4.9	83 80	94	30	6.8	3 6
November	2 8	*		2	60	4 0		8		6 7	10	64	4 6	80	3 6
December	2.7	°1 10	0 0		3.6	9		8 2		0.9	0	3 &	4 0	9 8	3 6
Ja suary	3.1	3.7	8 4	ř	*	*	_	0.3		0.0	7 7	3.4	¢1	1,6	3 0
Petering	2.7	3.0	20	30	3.6	9,	_	20	0	0 9	3 9	3.4	20	0.7	3
March	*		ţ	ř	9			5 9	0	9	5 4	4	63	0.0	3.4

APPENDIX XLI

Weekly wholesale prices of imported Jots (Bengol) tobacco in Pangoon in 1935-36

(Per maind)

457
APPENDIX XII—conJd

Kabya

(Per maund) Ywetchoon Green String

Months

					Directason
		R	Rs	Rs	Rs
February	1		11 6	13 7	19 4
,, -	2		11 6	13 7	19 4
,,	3		11 S	13 8	19 4
1	4		11 8	14 0	19 4
farch	1		12 5	14 3	19 4
	2		12 5	14 3	19 4
12	3	20	1, 2	13 7	19 4
		19	. 3	14 3	19 4

Average monthly prices of I at bids tolacco powder in the Charotar area of Bombay Avyrat APPENDIX XLII

								1)	Jo.	(Per mannd)	r					,	,				
Year	January	Гебтагу	pary		March	Ψ	Aprul		May		June		July	_	August	Septombe	September October	2	November December	Dece	nber
	Rs A F Rs A F	2	-	2	Rs A P	ā	:	#	<	A	Ps t	-	Real Rear Pear Rear		Its A	Rs A P	1 2		2	å	:
9.01	14 6 7	*	9	2	8		3	_		_								=	. :	1 2	
1027	17 4 3	3 23	10	14 23		13 10	0	_		_		_		-			_	_	:	2 2	
8.01	13 11 2 13 14	13 14	0 13	2	12 80	13 11	0 1	=	4	8		_		_							
020	12 7 10	23	8 10	12 11	0 .	6	9 9	12 15	12	_		_		_					0	œ	0
030	10 7 1	8 10	8	9 11		7	0	^	9	-	6 11 10	9					_	:			
031	11 8.11 11 3 11 13 3 11	12	6	=	8		0 6	80	00	_	9	6		_				2		۰	
032	8 8	0 12	0	9	0 6		4	_			5 11	6	6 6 10	2				_			
503	13 2 10	=	01	0	3 10	8 11	61	80	0	6	6 14 1		8 10	4			-		4	9	
034	13 6 7	11 6	٥	=	61	10 13	60	8	-	-								, =			
236	11 8 11	9 10	0	0	7	8 13	4	4 7			4	49	5	19				_			
renge	12 10 4 11 7 2 11 1 10 10 2	=	61	=	9	2	69		8 11	64	9	2	6 13	61			6 13 1 11 1 10 11 2	=	1 10	=	es
	-			i	1		•														

APPENDIX XLIII

Average monthly prices of Lilvo bids tobacco powder in the Charotar area of Bombay

							i	Ě	(Fer matend)	puq											
Year	Tanuary	Pebruary	uary	March.	d)	April	큐		May		June		July	-	Angust		tomber	September October		November Dosember	1
	Rs A P	Is	- 1	Rs A P		Eg.	4	88	4		Rs A P	Z	4	-	Re A P		Rs. A. r.	Rs A y	1 2	2	
9.0	15 0 0	=	0 6		13 11 11	=	0 0	23	6	10										2	. 10
1,00	17 0 0	17	0	11	7 7	8	91		es	- IB	۵	2 15	r-			_					
1028	10 0 7	14 14	14 7	10 13	0	22	69							_						0 22	
6.61	15 2 6	22	12 8	12	=	13 10	6 0	22	4	- 00		2	0			_			1×0	: :	, ,
1030	11 10 10	2	7 9	8	9	Ξ	10 10		23	60		۵	es		10 0	13	7			: :	
1031	10 12 1	=	6 11	0 12	2 10	ន	7 9	7	œ	4		_			•				• ;	•	4 6
1032	0 0 0	•	5 5	7 1	15 8	6	4			_	20	11				_				97 97	
1033	10 5 9	6	9	-	6 7	٥	8			_=	- 21		•	_		_		:	2	× :	
1031	12 12 3	3 13	4	=	2 0	8	9	=	e:	25		-	=			_		e .			
1935	* * 0	=	8 9					_					,	_		_			_	, = =	
Ачетадь	13 7 8	2	8 0	12	8	2	6 1	의	0	12	14 0 1	22	-	9	9	0	4	0 14 0 10 14	10 14 1	12 13 6	
		1	1		1	ļ	i	į		_		_		_		_					

APPI NOIX ALIV
Aerrege annual prieces of bith tobacco of Singli marlet

	1	.				10	0	0	10	10	
		Poor	1 52 4 4			10	91 9	1		10	
	3				_	•					_
	Pun	l g	A-			2 10	10	10	10	2 10	
	1 8	Mediam	П3 4 Р			6	~	-	0	6	
	Mirys Pondes (Bundles)		1 -						61	64	_
	Ē	Best.	1			0	8 12 11	8 12 11	0	0	
	12	2	Rs A P			Ξ	æ	~	=	=	
				-	10		61	01	_		_
	der	Poor	Rs A F	9 14	4	9	12	22			
	Ž.	, ~ _		_	5	23	13	2			
	Other type of tobacco powder (Tards)	dum	Rs A P Rs A P	61	10 10 4 14 10 11 11 0 2	8 3 14 10 11 13 9 3	14 10 11 13 15	8 12 11 18 5 7 14 10 11 13 15	11	11	
	of tobus	Medium	۲ .	0	0	2	10	2	9	2	
	8.0		<u> </u>	Ξ	Ξ	=	=	=	8 3 14 10 11	5 7 14 10 11	_
	4		۵.	9	Ξ	63	2 9	1-	63	7	
	30	Bost	*	12 13	2	œ		10			
					=	9 10	18	~	92	2 18	
			Rs A P	8	*	-	04	=	10		
_	n do	Poor	3	5	2	5	8	51	2	7 5	
(Per maund)	8				_	5 7 12 13					
200	pag	ğ	-	0	8		1 9		9	2 10	
ę,	1 2	Median	Rs A P	22	91		6.1	23	12 13	a	
	Pandharpuri tobacco powder				64	18	1 12	Ξ	-		_
	[월	Best	1 4	9 10	9	69	4		10		
	=	ä	2		61	22 12	16 14	8		18	
				3 17	*	01	10	7 11 4 18 5 7 12 13 6	5 14 0 18	D4	_
		Poor	4	4 15	4 12	8	49	=	7	8	
	둳	~	2	75	*	90	£~-	2~	10	00	
	Maga tobacco powder	ğ	Rs A P Rs A P Rs A P	•	90	9	=	61	2 10	0 3	_
	000	Medium	٠ -	¢,	6	12 13	8 12 11	11 0 2		٥	
	15		1 2	9	9	23	00	Ξ	6	=	
	ă l	اید	Rs. A F	2		۵	19	69	61	9	1
		Best.	4	6	8	0		13 16	0	12 13	- 1
	!		. =			15	22	=	=	=	_
		Year			_		_				
	,			1930 31	1931 32	1932 33	1933 34	1034 35	1035 36	1936 37	1

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APPENDIX XLV

Dasly prices of bids Jarda (powder) at Jayasingpur in 1935

(Per maund)

	I	,	
Dates	February	March	April,
	Jaximum Minimum	Maximum Minimum	Maximum Minimum
	Rs A. P Rs A P	RS AP RS AP	RS AP RS AP
1 2 3	16 8 6 7 II 5 16 8 6 6 15 8	14 5 4 6 9 9 16 14 4 6 15 8 16 8 6 6 9 9	12 7 10 5 14 0 12 13 8 5 8 2
4	15 12 8 6 9 9	16 8 6 6 9 9 16 14 4 5 9 9	13 15 4 5 14 0
5 6 7 8	19 1 7 7 5 7 18 5 10 6 15 8 18 11 9 6 9 9 17 4 3 6 9 9	15 6 10 6 3 11 15 6 10 6 9 9 16 8 6 7 5 7	13 3 7 5 14 0 13 15 4 6 3 11 13 3 7 6 3 11 12 13 S 5 14 0
9 10 11 12	17 4 3 6 9 9 18 11 9 7 11 5 17 10 1 7 11 5 16 8 6 7 5 7	19 13 4 7 11 5 18 11 9 7 5 7 16 8 6 7 5 7 16 8 6 6 9 9	13 3 7 5 14 0 14 5 2 6 3 11 15 0 11 5 14 0 13 3 7 5 14 0
13 14 15 16	17 10 1 7 11 5 16 8 6 7 11 5 17 10 1 7 11 5 16 8 6 7 0 7		14 5 2 6 3 11 13 3 7 5 14 0 13 3 7 5 8 2 15 0 11 5 14 0
17 18 19 20	16 14 4 7 5 7 15 0 11 7 11 5 17 10 1 7 5 7 16 8 6 6 9 9	14 3 2 7 5 7	13 15 4 5 14 0 13 3 7 6 3 11 13 3 7 6 3 11 14 5 2 6 3 11
21 22 23 24	16 8 6 7 5 7 16 8 6 6 9 9 16 14 4 7 5 7 16 14 4 6 9 9	1614 4 6 9 9	13 3 7 6 9 9 13 3 7 6 9 9 13 3 7 6 9 9 12 13 8 6 9 9
25 26 27 28	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 3 7 6 3 11 1 14 5 2 6 9 9	13 3 7 6 3 11 11 12 1 5 14 0 13 3 7 6 3 11 12 7 10 ; 5 14 0
29 30 31			13 3 7 6 3 11 2 7 10 5 8 2

APPENDIX XLVI Perces of bids Jarda (powder) at Jayasingpur (Per maund)

Dates	Maximum	Minimum
16th January 1935	Rs a p	Rs a p
24th January 1935	19 1 7	9 2 11
31st January 1935	16 8 6	7 11 6
ond February 1935	16 8 6	6 15 8
10th February 1935	18 11 9	7 11 5
18th February 1935	15 0 11	7 11 5
26th February 1935	14 11 1	7 5 7
28th February 1935	15 6 10	6 9 9
2nd March 1935	16 14 4	6 15 8
10th March 1935	18 11 0	7 5 7
18th March 1935	13 15 4	7 5 7
26th March 1935	13 3 7	6 3 11
31st March 1935	13 3 7	6 3 11
1st April 1935	12 7 10	5 14 0
9th April 1935	12 1 11	5 14 0
18th April 1935	13 3 7	8 3 11
26th April 1935	11 12 1	6 3 11

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APPE\DIX XLVI—con.d

Prices of bids Jarda (powder) at Jayasingpur

(Per matad)

Dates	Maximum.	Minimum
	Rs A. P	Rs A P
30th April 1935	12 7 10	5 14 0
Ist May 1935	11 12 1	5 8 2
9th May 193 ₀	12 7 10	5 2 3
19th May 1935	12 1 11	4 12 5
26th May 1935	11 12 1	5 8 2
30th May 1935	12 1 11	5 14 0
28th October 193o	13 15 4	7 5 7
3rd November 1935	13 15 4	7 5 7
10th November 1935	18 0 0	10 4 7
18th November 1935	17 10 0	9 8 10
2oth November 1935	16 14 4	6 9 9
30th November 1935	15 0 11	5 14 0
Ist December 1935	13 15 4	5 14 0
8th December 1935	13 15 4	6 9 9
15th December 1935	15 0 11	6 3 11
24th December 1935	14 5 2	699
31st December 1935	13 15 4	699

APPEN

Average wholesale monthly prices of different

(Per

Locally grown zarda (chewing and bids tobacco) Locally grown dess smoking to- bacco (superior)	Rs.	۸,	P	Ra			_			╁╌	_	_
bacco (superior)						,	Re		P		3	•
1 Locally grown sards (chewing and	-			-			-			11	14	_
bids tobacco) 2 Locally grown dess amoking to bacco (superior)							"					
Locally grown zarda (chewing and bid tobacco) Locally grown dest smoking to bacco (superior)							-	-				
1 Locally grown zarda (thewing and but tobacco) 2 Locally grown dea smoking to bacco (superior)	1			8			1	-	1	Ι.		
1 Locally grown zarda (chewing and bids tcbacco)	~		_		_			-	-		_	_
	2 Locally grown den smoking to bacco (suprency) 1 Locally grown sarda (chewing and but tobacco) 2 Locally grown dens smoking to bacco (suprency) 4 Locally grown sarda (chewing and but obbacco) 5 Locally grown series smoking to bacco (suprency)	Indicates to the second of the	but tobacco) 7 5 Locally grown dan amoking to 11 5 Locally grown sarda (chewing and but tobacco) 714 Locally grown data smoking to 10 15 Locally grown data smoking to 10 15 Locally grown sards (chewing and but tobacco) (supernor) 6 6 Locally grown sords (chewing and but tobacco) 7 5 Locally grown sords (chewing and but tobacco) 10 0 Locally grown sords (chewing and but tobacco) 10 0	but tobacco) 2 Locally grown stem amoking to bacco (supernor) 1 Locally grown stem (a chewing and but tobacco) 2 Locally grown stem (a chewing and but tobacco) 4 Locally grown stem (a chewing and but tobacco) 5 Locally grown stem (a chewing and but tobacco) 6 6 0 7 5 0 1 Locally grown stem smoking to bacco (supernor) 1 Locally grown stem smoking to bacco (supernor) 1 Locally grown stem (a chewing and bed tobacco) 2 Locally grown stem (a chewing and bed tobacco)	bds tobacco) 2 Locally grown dan emoking to lacco (supernor) 1 Locally grown sarda (chewing and dad tobacco) 2 Locally grown sarda (chewing and dad tobacco) 3 Locally grown data smoking to lacco (supernor) 4 Locally grown sarda (chewing and dad tobacco) 5 Locally grown sarda (chewing and dad tobacco) 6 6 0 8 2 Locally grown sarda (chewing and dad tobacco) 1 Locally grown and (chewing and dad tobacco) 1 Locally grown and (chewing and dad tobacco) 1 Locally grown and (chewing and dad tobacco) 1 Locally grown and and smoking to	Leaft tobacco) 7 5 0 6 11 2 Locally grown den emoking to 11 5 0 8 13 1 Locally grown sarda (chewing and belt tobacco) 7 14 0 6 6 2 Locally grown den smoking to bacco (supernor) 10 15 0 11 8 1 Locally grown sards (chewing and belt tobacco) (supernor) 7 5 0 11 5 1 Locally grown sards (chewing and belt tobacco) 7 5 0 11 5 1 Locally grown sards (chewing and belt tobacco) 10 10 0 10 5 2 Locally grown sards (chewing and belt tobacco) 10 10 5	2 Locally grown data emoking to 1 5 0 8 13 0 1 Locally grown sarda (chewing and both tobacco) 7 14 0 6 6 0 2 Locally grown data smoking to bacco (unpernor) 10 15 0 11 8 0 3 Locally grown data smoking to bacco (unpernor) 7 5 0 11 5 0 4 Locally grown data smoking to bacco (unpernor) 7 5 0 11 5 0 5 Locally grown data smoking to bacco (unpernor) 7 5 0 11 5 0 5 Locally grown data smoking to bacco (unpernor) 1 Locally grown data (chewing and both tobacco) 10 5 0 6 Locally grown data smoking to 10 10 5 0 7 Locally grown data smoking to 10 10 10 10 8 Locally grown data smoking to 10 10 10 9 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 1 Locally grown data smoking to 10 10 10 10 1 Locally grown data smoking to 10 10 10 10 10 1 Locally grown data smoking to 10 10 10 10 10 10 10 1	### Indicates 7 5 0 6 11 0 6	Locally grown sards (chewing and bid tobacco) 7 5 0 6 11 0 6 13	2 Locally grown data emoking to 1 5 0 8 13 0 7 15 0 1 Locally grown sarda (chewing and data tobacco) (uppersor) 7 14 0 6 6 0 5 10 0 2 Locally grown data smoking to bacco (uppersor) 10 15 0 11 8 0 8 3 0 3 Locally grown sarda (chewing and data tobacco) 7 5 0 11 5 0 10 7 4 Locally grown sarda (chewing and data tobacco) 7 5 0 11 5 0 10 7 5 Locally grown sarda (chewing and data tobacco) 7 5 0 11 5 0 10 7 6 Locally grown sarda (chewing and data tobacco) 1 Locally grown sarda (chewing and data tobacco) 10 10 10 10 10 10 1 Locally grown sarda (chewing and data tobacco) 10 10 10 10 10 10 10 2 Locally grown sarda (chewing and data tobacco) 10 10 10 10 10 10 10 2 Locally grown sarda (chewing and data tobacco) 10 10 10 10 10 10 10 3 Locally grown sarda (chewing and data tobacco) 10 10 10 10 10 10 10 4 Locally grown sarda (chewing and data tobacco) 10 10 10 10 10 10 10 1	1 Locally grown sards (chewing and belt tobacco) 7 5 0 6 11 0 6 13 0 5 2 Locally grown sards (chewing and belt tobacco) 7 14 0 6 6 0 5 10 0 3 Locally grown sards (chewing and belt tobacco) 7 14 0 6 6 0 5 10 0 4 Locally grown sards (chewing and belt tobacco) 7 5 0 11 5 0 10 7 0 5 Locally grown sards (chewing and belt tobacco) 7 5 0 11 5 0 10 7 0 6 0 8 5 0 8 1 0 7 1 Locally grown sards (chewing and belt tobacco) 7 5 0 11 5 0 10 7 0 1 Locally grown sards (chewing and belt tobacco) 7 5 0 10 5 0 10 5 2 Locally grown sards (chewing and belt tobacco) 7 5 0 10 5 0 10 5 3 Locally grown sards (chewing and belt tobacco) 7 5 0 10 5 0 10 5 4 Locally grown sards (chewing and belt tobacco) 7 5 0 10 5 0 10 5 5 Locally grown sards (chewing and belt tobacco) 7 5 0 10 5 0 10 5 5 Locally grown sards (chewing and belt tobacco) 7 5 0 10 5 0 10 5 6 10 10 10 10 10 10 10	2 Locally grown den emoking to 1 5 0 8 13 0 7 15 0 11 7 0 0 11 7 0 0 11 7 0 0 0 0 0 0 0 0 0

DIX XLVII

classes of tobacco in Hyderabad (Dn)

APPENDIA \LVIII

Statement showing the average weekly prices of locally grown (zarda) tobacco in Hyderabad (Dn.) market (used for b di and chewing)

(1934 3a) (Per maund)

	_		12.0			_,		_	_						
Date		I alit	у	Qu	II alıt	y		III alıt	7	Qu	(V alıt	y	Qu	V alı	y
	Rs	•	P	Rs		P	Re		P	Re	A	P	Rs		P
6th April 1934	Ì			9	6	10	7	5	0	4	8	6	Ì		
13th April 1934							6	13	8	4	2	8			
21st April 1934							6	12	4						
27th April 1934				9	6	10	6	11	4						
4th May 1934				9	3	11	7	7	2						
11th May 1934							7	15	3	1			1		
18th May 1934				ĺ			7	1	4	4	14	4			
25th May 1934				9	11	2	7	7	0	4	0	10			
1st June 1934				10	0	5	7	4	3	5	12	0			
8th June 1934	i			10	4	8	6	8	0						
15th June 1934				9	14	11				5	12	0			
22nd June 1934				10	13	4	7	9	4	5	6	8			
13th July 1934							7	3	5				3	3	9
20th July 1934				10	2	5	7	4	5						
27th August 1934							7	2	5	5	1	4			
21st September 1934							6	1	0	4	12	2			
12th October 1934							6	8	0	4	14	1	3	3	8
19th October 1934	13	2	6	9	8	3				5	9	0	3	3	8
26th October 1934	12	14	9				6	12	0	4	4	11			
2nd Vovember 1934	ļ			1			18	0	ı	ī	8	à	3	3	7
9th November 1934							7	4	8						
16th November 1934	13	7	4	10	6	11	6	7	7						
23rd November 1934	12	7	9	10	14	11	7	6	7	5	2	1			
30th November 1934	13	7	2	10	5	3	7	6	0	4	14	3			
7th December 1934	12	9	8	9	7	4	7	9	0						_

APPENDIX YLVIII-contd

Statement showing the average weekly prices of locally grown (zarda) tobacco in Huderabad (Dn.) market (weed for buds and chewing)

Hyde	rabad (Dn.) market (used (1934-35) (Per maund)	for bids and ci	hetesna)	obacco in
Date	I II Quality	III Quality	IV Quality	V Quality
14th December 1934	Rs A P Rs A. F	1	Raar	Rs A. P
21st December 1934 28th December 1934	12 5 6 10 4 10 13 9 0 9 3 7	7 10 0		
3rd January 193o	13 9 0 9 3 7 12 11 7 10 6 2		5 12 11	
11th January 1935 18th January 1935	9 13 11		5 1 3	3 9 11
2oth January 193o	10 0 10	8 2 8		3 9 11
8th February 1935	14 7 9 10 2 4	7 8 0	4 14 3	

10 13

10 4

10 4

9 15

10 12

10 I 7 2

9 13 3 7

10 10 6 7 15

10

10 6 11 7

13 0 0 17

14 11

13 1° 6 10

13

19 6

15 13

13 3 -10 0

13 6 10 9 15 1

6 6 10 3 7 12

8 10 8

7 15 0

7 6 5 5

7 10 4 5

7 12 3

7 14 6

~ 15 10 5 12

6 0

5 12 a

5 12 5

5 12 5

5 19 0

5 12 0

5 0 B

15th February 1935

22nd February 1935 1st March 1935

8th March 1935

15th March 1935

22nd March 1935

29th March 1935

5th April 1935

12th Ap al 1935

19th April 1935

26th April 1935

3rd Way 1935

10th May 1935

1"th May 1935

24th May 1935

31st May 1935

7th June 1935

APPENDIX XLVIII-concld.

Statement showing the average weekly prices of locally grown (zarda) tobacco in Hyderabad (Dn) market (used for bids and chewing)

(1934-35) (Per maund)

Date	I Quality	II Quality	III Quality	IV Quality	V Quality
	Rsar	Rs A P	Rs A P	Rsar	Rs A P
14th June 1935		10 9 4	7 15 5		
21st June 1935	11 15 10	10 5 4	7 11 11	508	
^o 8th June 1935	12 2 5	9 15 2	7 13 8		
5th July 1935	14 4 0	9 19 7	7 7 9) '	ľ
12th July 1935	12 2 9	9 15 4	7 11 0		
19th July 1930	1	10 6 9	7 13 5		
26th July 1935		9 13 1	7 13 5	ļ	
2nd August 1935	12 8 9	9 5 4	7 7 9		3 9 2
9th August 1935		9 4 9	7 12 3	5 5 10	
16th August 1935	1	9 11 8	7 6 3	4 4 8	3 0 I
23rd August 1935	12 2 6	9 4 9	6 15 6	ì	
30th August 1935		11 1 4	7 12 0	501	
6th September 1035	i	9 13 2	7 9 6		
10th September 1935	l	9 11 7	7 11 0	5 12 1	
20th September 1935	15 0 3	9 14 5	7 0 0		
4th October 1935	12 8 4	9 14 2	8 0 9	4 13 2	

APPENDIX XLIX

Average monthly wholesale prices of Mothari hookah tobacco at Patgram, Jalpanguri district Bengal

_			(Per m	aund)					
	Months	1928	1929	1930	1931	1932	1933	1934	1930
_			_						

		<u> </u>					_	
Months	1928	1929	1930	1931	1932	1933	1934	1935
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs

> a

la ı۸

a o

January

February

March

April

Vay

June

July

August

October

September

November

December

APPENDIX L.

	Fortwightly average wholesale prices of Jais and Mothers tobacco (aistege quality) in Cooch Behar State	holesale pr	sees of Jai	s and Mot	shars tobac	ರಂ (ಚುನ್ನಾರೊ	quality) :	" Cooch B	char State				
	Perjord	1927	1928	1929	1930	1931	1936	1933	1034	1038	1930	1937	
anuary	lst fortaght 2nd fortaght	Rs 4 21 3	Rs A 16 11 21 4	Rs A 31 6 72 7	fts A 23 13 23 13	B3 A 8 10 8 0	4 831 0 0 0 0	Rs A 13 13 13 4	Rs 4 11 1 12 8	Rs A 8 1 8 7	B8 ▲ 8 1 8 3	lts A 10 6 10 8	
obruary	lst fortnight 2nd fortnight	21 5	20 7 21 13	25 E3 E3 E3 E3 E3 E3 E3 E3 E3 E3 E3 E3 E3	23 IO 8 83 3	6 4	9 1	13 4	4 11 6	7 9 7 14	0 7 7 14	10 8	
larch	let fortnight 2nd fortnight	7 22 6 23 6	5 03 4 61	32 11	20 4	n n	8 IS	12 12	11.13	7 9	7 9	11 14	
indi	let fortnight 2nd fortnight	20 7	20 4	28 0	13 9	7 15	8 14	10 8	10 15	6 1	6 1 5 11	. :	
	lat fortnight 2nd fortnight	16 11 18 5	23 0	31 10	21 11	1 - 4	8 2 1 1	11 14	9 12	6 12	6 12		
				Ī									

•40	1st fortnight 2nd fortnight	18 12	£ 8	- 9	28 3		9 70	6 11		8 11 8 1	12 10		8 11	0 3	œ is	8 1 5 13	: :	
, tla	lnt fortnight Ind fortnight	2 S S	3 5		11 72 11 26 13	<u> </u>	0 ×		<u> </u>	8 16	14 5	Ļ	7 12 6	7 13	9 1	60	· :	
nugust.	Int fortught 2nd fortught	21 71	4 4		* = = = = = = = = = = = = = = = = = = =	<u> </u>	£ 92 1 = 1	7 0 7		21 G	13 6		P 174	7 12 7 11 11 11 11 11 11 11 11 11 11 11 11 1	, a	1 - 0	: .	
հերև այ օբ	tingh tingh		8 5		2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		10 11 10 8	8 6	==		6 21	* ×	oc 1-	7 12		0 x		4/1
the tobur	let fortnight Ind fortnight	2 2	23 6 23 15		٠ ډ ټ	22	2.2	0 0	I	2 2	2 2 2 2		00	2 12	0 2		::	
November ,	lat fortalglit 2n i fortalglit	17 1	30 11	- =	2 8	= -	1 50 K	2 =	1 10	10 13	12 13		8 13		0 01 11 0	1 = =	: .	
December	Int fortnight 2nd fortnight	17 2	2 2	E 10	2 2	1	e 2 13	2 2		11 10	11 3	⊥	8 8	8 8 8	១ ១	01 4		
			Ì	ĺ	Į	-	1	1		1		-	-			-		

APPENDIX LI

danua harvest prices of raw tobacco in the three important tobacco producing districts of North Bihar

minute process of raw so	of North Bihar (Per maund)	ant tooacco pro	aucing aistricts
Year	Muzaffarpur	Darbhanga	Purnea
	Rs a P	Rs a P	RsAP
1912 13	18 13 0	10 0 0	900
1913 14	17 8 0	7 3 0	800
1914 15	21 4 0	8 5 0	600
1915 16	20 0 0	8 0 0	600
1916 17	15 0 0	9 3 0	6 8 0
1917 18	18 0 0	10 10 0	6 8 0
1918 19	23 12 0	13 8 0	680
1919 20	27 9 0	11 8 0	800
1920 21	26 4 0	14 8 0	600
1921 22	40 0 0	14 0 0	800
1922 23	40 0 0	11 13 0	12 0 0
1923 24	20 0 0	15 8 0	10 0 0
1924 25	23 5 0	15 11 0	16 0 0
1925 26	20 0 0	11 11 0	800
1926 27	17 5 0	12 4 0	8 8 0
1927 28	18 11 0	12 7 0	900
1928 29	17 5 0	12 8 0	14 0 0
1929 30	15 10 0	19 5 0	13 0 0
1930 31	12 0 0	13 13 0	500
1931 32	13 11 0	9 4 0	980
1932 33	17 5 0	8 5 0	5 12 0
1933 34	10 11 0	9 13 0	4 8 0
1934 35	14 8 0	7 15 0	3 12 0
1 135 36	13 11 0	9 11 0	3 0 0
1936 37	16 8 0	13 11 0	4 12 0
	1 20 0 0		

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APPENDIX LII

Average monthly wholesale prices at Caumpore of Farruthabadi Kampilla tobbaco (Per maund)

								(1	er	mau	nu	_	_								
Months	1	931		,	932	:	1	193	£.	 	193	L	,	.93	5.	1	1936	i.	1	1937	ı
	Ra	٨.	P	Rs	4	P	Rs	_	P.	Ra	4	,	Rs	۸.	P	Rs	1.	r	Ra.		P
January	8	4	0	8	10	7	8	4	0	8	4	0				9	1	2	9	7	9
February	8	10	7	9	14	4	8	10	7	9	1	2	11	2	2	9	7	9	9	7	ø
March .	8	10	7	9	11	4				9	7	9				9	7	9	9	7	9
Aprıl	9	7	9	9	7	9	9	1	2	6	9	7	8	4	0	8	10	7	7	13	4
May	10	11	7	8	4	0	9	7	9				10	4	11	8	4	0			
June	11	2	2	8	4	0	10	4	11				10	4	11	8	10	7			
July	11	2	2	7	6	9							9	1	2	7	13	4		••	
August	11	2	2	8	4	0	7	6	9	į			9	1	2	9	1	2		••	
September	9	14	4	8	4	0							9	1	2	9	7	9			
October	9	7	9	s	10	7	8	4	0	9	-	9	9	7	9	9	1	2			
November	9	1	2	8	10	7	8	10	7	9	14	4	9	7	9	8	10	7			
December	10	11	7	8	10	7	8	10	7	10	4	11	9	4	7	9	1	2			
		_					_	_	_	,	_	_		-		·		_	_	_	-

APPENDIX LIII

Average monthly wholesale price (at Caumpore) of Poorbe (1 e. Dess) tobacco imported from Bachhor Dyer and Saresh in Bihar (Per maund).

₫	Jan 1823	February	March	April	May	J 100	July	Angust	September	October	November	December	
Ra A F R. 7 6 9 7	1	4 9	Es & P	Rs 4 P	Rs 4 P	Rs 4	Es A P	Rs A 7	Rs A P	Rs A P	Rs 4 F	Rs A P	
1 6 9 7		6 9	\$ 51.8	9 1 2	10 4 11	11 2 2	11 8 9	11 3 2		10 11 7	11 15 4	11 8 9	
5 12 4 6 9		-	5 5 9	6 9 4	7 13 4	7 13 4	9 1 3	8 1 2	9 1	2 I 8	9 14 4	9 7 9	474
11 2 2 11 2	l.	67	10 11 7	9 14 4	8 4 0	7 6 9	7 6 9	7 6 9	7 6 9	8 4 0	7 0 2	7 6 9	
10 4 11 10 11		-	10 11 7	10 11 7	1 6 9	7 6 9	7 6 9	2 6 9	7 6 9	1 0	6 9 7	6 9 7	
8 4 0 9 1 2	-	C1	7 6 9	0 6	21.24	5 12 4	6 12 4	5 5	5 12 4	5 12 4	6 9 7	5 12 4	
7 6 9 7	9		6 9 4	7 6 9	7 6 9	7 6 9	. 6 9	6 9 7	6 9 7	6 9 7	6 9 7	6 9 7	
1 0 2 1 0		61	0 9 2	1 6 9	7 6 9	6 9 1	9	6 9 7	6 3 0	6 3 0	6 9 7	6 9	
5 12 4 5 12	5 12	*	6 12 4	6 9 7	5 12 4	5 12 4	5 12 4	6 12 4	5 12 4	5 12 4	4 15 2	4 15 2	

6		- 1	=	œ	61	· ∞	r-	Q1	1				
-	-	۵	=	1-	0	0	8 10	•	1				
٥	٥	0	2	G	r-	ω .	00	-	ł				
2	91	-	*	*	69	1 =	0	2	1				
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APPENDIX

Average monthly wholesale prices of hookal tobaccoo

{Per

-			Fer	ozepore Ma	rket		
Months.	1930-31	1931-32	1932-33	1933-34	1934 35	1935-36	1936 37
	Rs. a. P	Ra A P	Rar	Rs. A. P.	Es A P	Rs. a. P	Rs. a. P
April	10 0 0	8 14 3	800	599	6 15 3	10 0 0	800
May	10 0 0	10 0 0	8 0 0	5 9 9	6 15 3	10 0 0	800
June	10 0 0	10 0 0	8 0 0	6 6 6	6 4 0	10 0 0	800
July	6 10 9	10 0 0	8 0 0	6 6 6	6 15 3	7 8 0	800
August	8 0 0	800	5 15 0	6 2 6	606	700	800
September	800	800	5 15 0	6 4 0	8 6 9	8 0 0	800
October	, 800	800	5 15 0	5 9 9	10 0 0	8 0 0	8 0 0
November	800	8 0 0	5 15 0	5 9 9	10 0 0	800	800
December	8 0 0	800	5 15 0	5 9 9	10 0 0	8 0 0	8 0 0
January	8 0 0	8 0 0	5 15 0	666	10 0 0	800	980
February	800	8 0 0	5 15 0	666	10 0 0	8 0 0	10 0 0
March	8 0 0	8 0 0	5 0 0	6 lo 3	10 0 0	8 0 0	10 0 0

LIV
at Ferozepur and Lyallpur in the Punjab.

_		Ly	alipur Market			
1930-31.	1931-32	1932 33	1933-34	1934-35	1935-36	1936-37
Ba a. P	Rs. a. P	Re a P	Ra a P	Rs. A. P	Rs. a. P	Rs. A. P
10 0 0	10 0 0	10 0 0	900	8 0 0	9 12 0	8 0 0
10 0 0	10 0 0	10 0 0	900	- 0 0	8 12 0	8 0 0
10 0 0	10 0 0	10 0 0	9 0 0	8 0 0	9 0 0	7 8 0
10 0 0	10 0 0	10 0 0	960	7 4 0	10 0 0	7 4 0
10 0 0	10 0 0	900	900	7 2 0	9 8 0	8 0 0
10 0 0	10 0 0	900	800	7 0 0	9 2 0	- 0 6
10 0 0	10 0 0	9 0 0	800	8 0 0	8 12 0	6 0 0
10 0 0	10 0 0	900	800	7 8 0	8 4 0	ə 0 0
10 0 0	10 0 0	900	800	10 0 0	8 4 0	o 0 o
10 0 0	10 0 0	900	800		9 0 0	5 0 0
10 0 0	10 0 0	900	800	J	9 2 0	5 0 0
10 0 C	1000	900	800	- 1	8 12 0	5 0 0

APPENDIX Average monthly wholesale prices of

(Per 7

						M	carbs	n T	obso	000			_		_	<u> </u> _		CpPi	bus.		
Vontb	19	31-	39	193	12	33	193	13-3	4	193	43	5	193	35-3	18	19:	31-3	12	192	32-3	3
	Re	Δ,	P	R	٨.	P	Bs	٨.	r	Rs.		P	Ra,		P	Ba		r	Ra,		P
Aprıl	1			11	0	0	9	8	0	7	0	0	9	0	0	ì			4	8	0
May	ţ			11	0	0	9	0	0	7	0	0	8	8	0				4	8	0
Jane				10	8	0	8	8	0	8	0	0	10	0	0	1			4	0	Đ
July	1			11	8	0	8	0	0	8	0	0	11	8	0	ĺ			4	0	0
Angust	1			u	8	0	s	0	0	8	0	Q	14	0	0	i			3	8	0
September	ļ			11	0	0	7	8	0	9	8	0	15	8	0				3	8	0
October	15	0	0	11	0	0	7	0	0	10	0	0	13	0	0	5	12	0	3	8	0
November	14	8	0	10	0	0	6	8	0	11	8	0	12	0	0	5	12	0	3	0	0
December	14	0	0	10	0	0	5	12	0	12	0	0	22	0	0	5	12	0	3	Đ	0
January	13	0	Ø	10	0	0	5	8	0	15	0	D	7	8	0	5	12	0	3	0	Đ
February	12	8	Đ	10	0	0	5	8	0	14	0	0	7	0	0	5	12	0	3	0	0
March	11	ø	0	9	8	0	5	12	0	11	0	0	7	θ	0	5	0	0	2	12	0

LV

cheuring tobacco at Bark in North Bikar
msund.)

Tobseco.				Donji To	ba000		,
1933-34	1934-35	1935-36	1931-32	1932-33.	₹933-34	193 4- 35.	1935-36
Bs. A P	Rs. a. F	Rs. A P	Rs. a. P	Re A P	Ba. A P	Rs. A. P	Rs 4. 7
2 12 0	2 8 0	400		160	0 10 0	0 10 6	170
280	280	480		180	0 10 0	0 11 0	1 2 0
280	2 12 0	480		180	0 9 0	120	1 0 0
200	2 12 0	4 12 D		1 4 0	่องอ	1 8 0	1 2 0
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2 4 0	4 4 0	5 8 0		160	0 8 0	1 12 0	0 15 0
2 4 0	4 4 0	480	2 4 0	0 14 0	080	200	0 14 0
2 0 0	8 0 0	3 12 0	2 2 0	0 14 0	0 8 0	1 12 0	0 13 0
200	500	3 8 0	1 14 0	0 12 0	5 8 0	1 12 0	0 12 0
200	440	2 12 0	1 14 0	0 2 0	0 9 0	180	0 12 0
2 2 0	3 8 0	280	1 12 0	0 11 0	0 8 0	160	0 11 0
2 4 0	3 12 0	3 12 0	160	0 11 0	b 10 6	1 2 0	0 12 0

Average monthly wholesate prices of chewing tobaccos at Palghas market APPENDIX LVI

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		1	*	l een	i ii	l ya.	Meenampalyam No I Quality	l č	1	b							٠	γdur	nafp	t t	.0	Udumalpet No I Quality	lı ty					1
Month	1932 33	eg eg	- E	1933 34	-	193	1934 35	<u> </u>	193	1935 36	ì———- [!]	1936 37	8	<u> </u>	1932 33	, g	2	1933 34	*	, a	1934 35	100	[E	1935 36		E	1936 37	1 -
	Rs A	1		Rs A P		22	7		2	Rs A P	2	₹	*	22	۱ ۹	۲ ۲	28	Rs A P		R3	Rs A P		Rs A P		$\overline{}$	28	•	
April	8	0 1		42 12	0	ŧ	8	-0	31	14 0	#	67	0	-22	9	0	12	-	0 1	19 12	13	0	53	0 0		24 10		0
May	33 10	•	37	37 14	a	38			*	0	0 38	6	٥		19 12	0		19 12	0	21	•	0	8	ø	-	53	9	٥
June	8	_	30	ø	-	88	9		33	9	37	0	0	64	0	•	61	63	•	8	•	-	21	9	-	22	-	0
July	36	3 0		38 10	•	2	6		30 10	0	- 25	6	0	8	6	0	19	19 12	•	18	c4		21	_		19	t-	0
August	35 14	0 4	8	10	-	8	80		34 14		98	60	•	_==	9	•	18	63	0	18 15		-	21	9	-	21	6	
Septembor	38 10	0	4	61	•	36	60		37 14		0 38	ex ex	•		11	•	13	4	•	17 13			20	6		23	0	۰

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-	2	Movember	December	January	February	Merch				
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APPENDIX INII
Average monthly wholecate prives of mulf tohacco at Mangalore market
(Per mand)

								-	Per l	Per manud	8		-		ŀ	- {	ı	ŀ	-	ļ	1	1		ı	Ì	- }	- 1	- 1
						ů	I Quality													ů.	fI Quality	ıty		į			1	
Month	1932 33	83	- E	1933 34	z	E E	1934 35		8	1935 36		1936 37	31	=	1032 33	33	=	1933 34	34	£ .	1934 35	32	2	1935 36	8	<u>s</u>	1936 37	
	Bs A	84	22	۱ ۹	-	188	4	-	22	*		Rs A	-	22	∢		Ra	- ■	A	22	∢	Α.	82	4	-	R _S	∢	
April	27 15	0	26		0	56		-	23	~	-	19	0	8	ç	0	2	10	0	8	-	0	13	9	•	7	Ξ	0
May	27 15	0	26	1-	0	56		-	23	o o	-	19 2	٥	8	15	0	82	9	0	ឌ	9	0	17	10	0	14 11	Ξ	0
June	27 16	•	26	t-	•	26	-	-	23	8	-	18 12	•	8	6	0	18	0	0	22	=	0	11	2	0	14 11	=	0
July	27 15	•	26	1-	-	26	-	-	23	8	-	19 2	0	20	6	0	17	2	0	55	-	0	17	10	0	14 11	Ξ	0
August	27 15	•	36	1~	•	28	-	÷	23	8	-	19 2	•	8	6	0	17	2	0	22	-	0	1	2	0	14	Ξ	0
September	27 15	0	28	1-		26	-	÷	83	8	-	18 6	0	ន្ត	c	0	7	2	0		~	0	5	2	0	13	ю	ø
October	27 15	0	26	r-	•	26		•	53	ω ω	-	18	9	ន	6	0	5	2	0	22	-	٥	S	2	0	13	10	8
November	29 6	0	27	60	0	26	-	-	23	8		18	9	ន	6	0	2	9	0	61	-	0	1	20	0	13	10	•
December	28 11	•	8	7	•	28	-	-	83	~	-	18	0	8	0	0	17	2	0	22	-	0	1	2	0	13	ю	•
January	27 15	•	82	-	0	26	r -	-	23		-	8	0 9	8	6	0	11	2	٥	22	-	0	4	2	0	13	10	9
February	27 15	•	26	4	•	26	r -	•	23	œ	÷	18	0 9	ន	6	0	17	2	•	22	-	0	17	2	0	13	10	
March	55	0	28	-	•	88	4	•	23	æ		18	9	20	6	0	2	2	0	22	-	0	11	2	0	13	10	9
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MAPPENDIX I VIII

٦	Average monthly privately and tobacco (used for m. ff. of high class bade) at Rawa w ren Myrore State. (For m. d.)	th ray Lin	of I sads	14. tobacco (u.	ed for an	(Porma d)	s class bud	s) at Raw	l not bes	fyeore Sta	ı,		1
Months		1001	1926	1927	1028	1029	1930	1931	7.61	1013	1934	1935	193¢
		ا <u>ئ</u> ا	2	2	ž	E E	2	≥	Its	15	s _Z	82	188
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Felr ary		26	ត	83	23		23	8	10			24	
Marci		-21	2			2					12		œ
Aprl		10	£.	88	72	19	e3		12	5	12	2	9
May		0.		11	ដ	77		e;	~		97		
J 119			ន	Ŧ			97	78	19	20	53	18	
July		ដ		*	e-	- 50		17				=	
Aug at		ឌ	22	50	ď	23	20	3.6	21	23	9	1	
Sol toml or		27	8	27	ä	22	~	50	92				
Octol or		27	°1	ន			88			52	27	25	
Nove alor			20	ន			23	10	10		10		
Decemior		21		88	25	20	28		21			ĭ	

APPENDIX LIX
Average markst charges per Rs 100 worth of resu tobacco
(For sales in villages)

			Guntur	tur					
froms of charges	North Bengal	Charotar	Virginia	Country (Natu)	North Bibar	a D	Punjab	Delhi	Burma
Payable by setter-	Rs A P	Rs A P	Rs A P	Rs A P	Rs A P	Rs A P	Rs A P	Rs A P	Rs A P
Randing									
Weighing					2				
Соппиваю			9						
Brokerage				•		> n			
Charity ete			6						
Allowances in weight	6 0	7 15 0						,	
Dsecount	_		•	>		D N	9		
Mangon or Present	0							0 0	
Terminal Toll or Octros charges									
Miscellaneous									
i									
Total	6 6 0	14 9 0	3 8 6	4 12 6	0 13 9	2 11 0	9	9	

APPENDIX LIX-contd
craye market charges per IIs 100 worth of raw tobacco

	Aterage	market cha	ves per Re	Aterage market charges per Ro. 100 worth of raw tobacco	raw tobacco					
		(Fo	(For sales in villages)	lagos)			i			
			Guntur	5						
Itoms of charges	North Bengal	Charotar	Virginia	Country (Natu)	North Bihar	u v	Punjah	Дојћі	Burma.	
	Rs A r	Rs A P	Rs A P Rs A P	Rs A P	Its A 1	Rs A P	Rs A P	Rs A T	R8 A.F	,
de by buyer—	_									
Volghing					0 4 0					
Jommission	8 0	0 8 0			0 15 0		2 5	2 12 0		
Brokerage										
Labb or allowance to Dalat					•					
Charley		0			>					
Miscellancous										
Total	2 6 0	0 10 0			1 12 3		2 5 6	2 12 0	1 2 3	
Grand Total	7 12 0	15 3 0	386	4 12 6	2 10 0	2 11 0	2 11 6	2 11 6 11 4 0	1 2 3	

APPENDIX LX Average market charges per Rs 100 sorth of ra v tobasso

Guntur	Virgina Country (Nata) (Nath (Nata)) (1) markets) (2 markets) (6 markets) (2 markets)	IS A P RS A P RS A P RS A P RS A P RS A P	008 024 040 050	030 024 022 063 050	160 250 230 154 280 200 300		020 070 020 009 004 026		0 0 10 0 2		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	4 0 4 5 7 0 3 5 10 6 5 5 7 7 1 2 12 6 3 0
	U P markets)	4					0		0 9 10			-	100
tur		a v	4	5	m		64					0	
tur		4	61	64	15		-	4				67	-
Gun	Virginia	Rs A P	٥	800			61	4				0	
	Nipani	Rs A P	0 3 2		190		0 1 2	0 0 9	180		1 4 6		10 9 10
	Items of charges	Payable by seller—	Handling	Weighing	Сотпиваоп	Broketage	Charity etc	Allowances in weight	Discount	Mangon or Present	Terminal Toll or Octros charges	Miscellaneous	Total

APPRINDIX LX-could

97	
	worth of raw tol
	Rs.

		(1)	(1 or solos in marl ets)	l eta)				1
		Guntur	tur					
frems of charg s	Nipani	Virginia	Country (Natu)	North Bil ar (8 markets)		Punjab (O markots)	U P Punjab Hydorabad (3 markets) (9 markets)	Burms (2 markots)
	Re A P Es A P	Ra A P	Rs A P	Rs A P	Ra A T	Rs A P	Rs A P	Rs A P
Payable by buy r								
Weghng				0 1 0			~	
Comm ## n	0 1 0			2 6 0		1 10 3		8 8 0
Brol erago						1 10 3		
I a' h or allowance to Daket	1 4 0							
Cl artity	0 1 6			0 1 1				
Miscellancous	_			8 0 0				
[ota]	1 12 6			2 8 9		3 4 6		0 8 8
Gran l Total	12 6 4	4 0 4	5 7 0	5 14 7	6 5 5	10 11 7	2 12 6	8 8

APPENDIX

Certain physical and chemical characteristics of cured

Туре	1	ĺ	s	ıze
	Colour	Texture	Lergt	h. Breadth
A -N Tabacum				_
I Cigarette-				1
L luginia fine-cured— (a) Guntur	Bright lemon to reddis	h Finesilky and fu	II 12 to I	
(b) Myscre	Bright lemon to green	Fine tilky to the	n 10° to 11	
() Saharanpur	Bright lemon to reddis	h Finesilky and full to thin	12" to 18	
(d) Satura 2 Country sun-cured—	Yellow to light brown	Medium to thick by	1 9° to 15	5" to 10"
Guntur IL-Cigar-	Light to dark brown	Medium and pliable	10° to 18 and over	
(a) Madras	Light to dark brown	Thin to medium and	18" to 24	4" to 9"
(i) Bengal	Brownish yellow to greenish and dark brown.	Thin	10° to 22	5" to 9"
III.—Cheroot— (a) Bengal	Brownish yellow with dark spots and pat- ches greenish and dark brown	Medium	10° to 22°	5° to 12°
(b) Madras	Dark brown to almost	Thus to medium	12" to 30"	3" to 12"
(c) Burma IV —Bidi—	Greenish brown to dark brown	Thin to medium and pliable	15" to 30"	6° to 12°
(a) Gujeratı	Greenish to yellowish brown in colour with characteristic brown	Thick but not coarse	12° to 15°	5" to 9"
(b) Nipani	spots Golden yellow to orange and light brown some- times with charac teristics brown spots	Thick but not coarse	12" to 18"	6" to 9"
(c) Mysore	Yellowish brown	Medium	Above 15	3° to 6°
V & VI — Hookah chew ing and must	Light to dark brown	Medium to thick and slightly coarse	10° to 24° and over	3° to 12°
B.—N Runne				
VII & VIII.—Hookah chewing and snuff— (a) Bengal	Greenish brown	Thick, coarse and	10° to 15°	6° to 12"
(b) U P Punjab and	Greenish brown	writikled	6° to 12°	3" to 6"
IXR.J.	- TOWN	Medium to thick and coarse	to 12°	and over
Nipani Pandharpuri	Light to dark brown	Thick and slightly coarse	Over 12°	6° to 8°

LXI	zo leaf	prod	uced	n In	dsa	and	Burn	sa .						Sand			
Ī	V ₁₀₀	t_ne			1			As	ь		_						
\r	umm.	Minim	.mr	Mean	-	Maxu	num.	Minin	num.	Mea	n.	Maxi	mum	Mini	mum.	Mea	
	% 2 96		% 1 22	١ ١	% 14		% 16 66		% 13 87	1	% 5 %		°, 0 58		°0 0 27	0	% 43
	1 17		0 60	0	76		13 31		11 44	1	2 61	1	1 26 3 30		0 70	_	88
	2 01	·\	0 62		1 0	1	16 4	1	12 96	1	14 65 16 5	1	0 39		0 28	(33
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	3	44	0 6	- 1	2	1	22 i	- 1	18 8	1	21 C	- 1	16' 34	Ų	1 10 2 81		3 12
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		3 99		25 19		75	20	64		98 50	1	30 91	2	86	0 6	1	2 66
		3 78	,	2 30		3 13		3 81		00	18	, 60	1	69	0 2	7	1 07
		5 61		2 96		3 90		14 99	ı	3 02	1	4 00		92	0 9	- 1	1 93 5 43
		5 53 4 18		4 32 1 63		4 93 3 14	1	22 48	1	6 18		g 97	7	17			
					1			24 79		19 7:	3 :	22 35		2 13	0	1	1 37
		7 39	1	20	١	6 l 3 8	- 1	27 73	1	7 3	6	22 63	ļ	0 46		-3 44	3-18
		8 1		4 (-	6	51	17 0	5	13 2	20	15 -:	1	4 20		.,	
	Ī																

APPENDIX LXII

Agricultural Produce (Grading and Marking) (Tobacco) Rules

- 1 Short title and application—(1) These rules may be called the Agricultural Produce (Grading and Marking) (Tobacco) Rules, 1938
 - (2) They shall apply to tobacco grown in India
- 2 Grade designations—Grade designations to indicate the quality of unmanufactured tobacco (Nicotiana Tabacum) grown in India are set out in column 1 of Schedules I to III
- 3 Definition of quality -(1) The general characteristics of quality indicated by such grade designations shall be as follows --
 - All the tobacco shall consist of clean and properly cured leaf free from excess morture, stems and other extraneous matter

The tobacco may consist of leaf or strips (S) but not of mixtures thereof, and may be reconditioned (mechanically re dried) (R) or not

*In the case of 'Strips' the lower part of the midrib shall be removed to the extent of at least 50 per cent of the leaf

- (2) The special quality indicated by such grade designations is set out, against such designations in columns 2 to 4 of Schedule I, in respect of fine-cured Virginia of Schedule II in respect of Sun cured Virginia and of Schedule III in respect of Sun cured "Natu" (Country)
- 4 Grade designation mark .- The grade designation mark shall consist of the word 'AGMARK together with the following particulars .-
- (a) Reconditioned The letter 'R
- (b) Strips The letter S
- (c) Five cured The letter F
- (d) Variety of tobacco The letter V ' in the case of Virginia and the
 - letter N m the case of Natu (Country)
- (e) Grade designation. An Arabic lotter
- parkage ha means of a stencil having letters at least 2 inches high —

 (a) The name of the district.

 To be indicated by the
- name of the district or the allottel abbrevia tool
- (6) Year of harvesting The last two figures of the year
- 6 Example of marking —The marks 'AGMARK G 38 R S I' V 1' on a package shall represent Guntur District 1938 harvest Reconditioned,

^{*}The absence of any or all of the letters "R' "S' and "F" would mean respectively that the leaf is not reconditioned (see han cally reduced) that the leaf is so not stropped and that the leaf is son oured

Stripped Flue-cured, Virginia, Grade 1 tobacco Similarly the marks "AGMARK G 33 A 3' represent Guntur District, 1938 harvest, Sun cured "Natu" (Country), Grade 3 tobacco

- 7 Special marking rules—In years when there are rains at the time of braves small brown spots appear on the leaves after it is cured. In such years, provided the area of such spots does not exceed 0.5 per cent in the case of First Grade 1 per cent in the case of Second Grade, 1.5 per cent in the case of Third Grade, 2 per cent in the case of Fourth Grade and 2.5 per cent in the ca e of Fifth Grade slightly spotted leaf may be packed under the grade designations but shall bear a special mark (PP) following the grade designation mark
- 8 Method of packing—(1) Graded tobacco shall be packed in wooden hogsheads or wooden cases or in bales securely wrapped in gunny cloth
- (2) Each covering shall contain only tobacco of one grade designation, all of which shall have been harvested in the year specified

SCHEDITE I

Grade designations and definition of quality of unmanufactured Flue-cured Virginia* tobacco grown in India

Grade		Special c	haracteristics
des gna tions	Colourt	Texture*	Blemsh‡
1	,	3	4
1	Bright Lemon	Fine	Slight greenish tings at velus free from sponguiess
2	Lemon	Good to M lium	Small ghtgreen atches and greenish tinge at veins with very light and orcasion! stoney spots at tips and edges of leaf not exceeding 13°nd of the total area
3	Dull Lemon (Brights)	Vfed um	Small light green patches and gree mile tinge at verns light sporey spots the area of which shill not exceed I liths of the total
4	Yellow with greet h tings (Semi Brights)	Med um	Small light green patches and gree in h time at vers light sparser spot the area of which shall not exceed 4 16ths of the total
5	Dull vellow with green h times (Coloury)	Coarse and than (not papery) or mixed	Creenish and light brown patches extending to not more than 5.3°nd soo oness and scalding not exceeding 9.16ths of the total area

SCREDULE II

Grade designations and definition of quality of unmanufactured Sun-cured Virginia* tobacco grown in India.

G-ade		Special charact	eristics
de∘igna tions 1	Colour†	Texture†	Blemish‡
1	Bright	Good	Vil
?	Light Brown	Medium	1/16
3	Dark Brown	Med um	2/16

SCHEDULE III

Grade designations and definition of quality of unmanufactured Sun-cured Natu (Country) & tobacco group in India

Grade		Special chi	racteristics
designa tions	Colourt	Texture†	Blemsh‡
_1	2		
ı	Bright	Good texture and body	M
2	Light Brown	Medium texture and body	2/16
3	Laght Dark	Medium texture and body	2/16
4	Heavy Brown	Heavy body	2/16
5	Heavy Dark	Heavy body	2/16

*Vuguna tobacco shall consist of the following varieties w Harrison Special, Cash Adcock and hybrids of these varieties having similar characteristics

†Blemah shall include green patches, brown spots and patches, damage due to perts and diseases, brakaspe un handing, sponguese, sealding, black spots or other damage. The figures of proportion given in column 4 refer to the total area of leaf affected in any sample.

§ Vais (Country) tobacco may include any of the indigenous varieties of Nicotana Tobacum but all the leaves in any sample or container shall have similar varietal characteristics

^{*}To allow for accidental errors in grading a tolerance of 1/18th for colour and tex ture in respect of leaves corresponding to the specifications in the next lowest grade will be allowed except in Grade 1.

APPENDIX LXIII

Quantity of imported tobacca (st bject to Customs duty) at the ports of each of Indian provinces and Burma which remained in the Cistoms Bonded warehouses on 31st March in each official year

(In lb)

Tobseco	Year	Bengal.	Bombay	Sınd.	Madras	Total	Burma
Manufactured and Unmanufactured	1928-29	8 5 110	17 785	17 154	467 393	1 377 442	170 58
	19*9-30	1 027,231	61 520	4 285	323 810	1 486 846	119 53
	1930-31	773 448	4,924	53,543	6,400 351	7 232,266	110 88
	1931-3°	904,401	9 988	6 650	489 788	1 410 827	3 35
	1932-33	315 426	49 757	32,008	599 985	997 176	7 53
	1933-34	117,238	39 308	19 645	628,529	804,720	6 61
	1934-35	615 163	26 088	9 136	643,277	1,293 664	4,74
	1935-36	330 532	1 656	10 653	659 893	1,002,734	22,70
	1936-37	488,475	1 123	1 690	668,033	1,159 321	7 98

APPENDIX

Tr de (rail and reer sorne) in name ufactured lobacco between Average for the years 1934 35

(Thousand

	_							Import
	Beng	al	Bom	bay	Mad	Iras		
Experte from	Bengal (exclud ng Calcutta port.)	Ca cutta port.	Bombay (exc ud tug Bombay port)	Bombay port	Madras (exclud ing Madras port)	Madras ports	Bihar and Orissa	United Pro Vinces.
Bengal (ex Calcutta port)		203 1			0.5		59 0	0.6
Calcutta port	22 6				0.4	01	36 4	28 3
Bombay (ez Bombay port)	19	8 1		125 2	2 7	3 2	2 1	18 3
Bombay port			11					01
Madras (ez Madras ports	10	80 8	44 4	0.3		430 2	54 9	9 4
Madras ports			0 1	ľ	20 0	- 1		
Bihar and Oriwa	263 0	140 0	0.9	l i	0.9		İ	385 0
U P	0.8	14	8 3	0 1	1	ļ	51	J
Panjab	1	0.6	0 1		. }	- }	- 1	27 7
C P & Berar	03	02	03		01	1	03	51
Assam	11 9	0.6					0 1	
Sind and Br Baluch s tan (er Karechi)			01				}	01
Karach								ì
At am a Domm one			0 9	0 1	14	0 3		Į
Myscre			2 0		39 6	19 6		03
Kashm r								,
Ra putana	1	0 1	0 2			- 1	1	17
Centra Ind a		6 1	01		i		- 1	1 3
Total	301 5	435 0	58 5	125 7	65 6	453 4	157 9	477 9

LXIV.

different provinces, India: States and chief ports in India

to 1936 37

maunds).

ınto.

	ļ		Sind.			1		1		
Punjab.	C. P and Berar	Assam.	Sind and British Balu chistan (er-Kara chi.)	Kara chi.	Vizam s Domi nions	My sore.	hash mir	Raj putana.	Central India	
	0 3	169 4	,					0 7		433 o
16	0.5	0.5			0 1	2 1		0.5		93-1
19 0	124 1		5 7	37	13	2 2		120 0	133 7	571 2
ŀ	1		0 2					0 3		17
3 8	38 9		0 1		83 9	46 7			14	820 8
1	0.6				03	27 8		İ		48+8
7.9	62 2	21 8		0 1		0 4		0 1	11•5	893 8
111 9	19	0 1	'		01			450	8 7	183 4
1	1		2 3	0.6	i		7 5	0.9	0 1	39 8
01					0.1	- 1		0 1	3 1	9 7
		1							i	12 6
13 5				5 4	-	ı	0 1	10	- [20 2
01	ļ		6 6	i		-	- 1			6 7
i	0 1			ĺ		į			ł	2 8
		Ì			20					63 5
0 1						ļ	- 1	- 1		0 1
0.9	ļ		0 1					İ	0.5	3 5
0 2	11					18		15 6	1	20 2
159 1	229 7	191 8	15 0	9.8	87 8	111 0 1	7 6	194 2	159 0	3,230 5

LUCAR

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APPENDIY LYY Annial avera,», coustal export and import trade in tobacco and toba

١

Burma		1.	tobacco products	1	egg Lota?		10 4 306	31 16.52		67 3 13 480	140 37 60		2400	18 13.18	72			111	6 92	3 513	22 43
ters and		Potal	tobacco		radian Fore ga	1	¥ 201	15 21	_	13 413	36 18 1.	2 413	_	12,98	4 189	67 40	487	_	121 141	14 49	325
ndian mot		los.		Total	_		2.0	¥ 01	0.00	_	5 05	1148	_	\$ 5 1	230	282 67	83	48			0.46 1917
arif me L		Other sorts of	Town I	th For gn	1	3.0		_	30	_	_	10	-	2	•	~	_	-	- 10	_	
to of the	-		1	Total Indan	1	365 3	7.82 2.36	_	537 925	13 85 4 26	205	2	4 12 4 36			·	_	9	1 521	5 16	_
Average for 1994 38 to 1998 37 (All Burne and During (All Burne)	Cigarettee		-	T us anos	1	or	23	_	_	63 13	~	_	- 4	15 2 160	28 60 00	30	2	_	289	2,95 12,14	_
rotago for 1934 35 to 1938 (All figures in thousands)	-	-	1		L	_	80.	207	5	78 87	204	-	4 04	2 145	80 38	82	424	258	_		-
Average 1 (All fig	Unmanufactured	1	Total		3 768		9	11 964	28.60	3	7 000	***	8	1814	4 21	313	Ē	1 728	4 83	_	
	Unman	-	Indian Foreign	1	3 766	5 27	_	13064	3 800	2 060	_	4 55	1 814	4 21		3 5	-	-	4 82		
					ê	(g)	é	e e	g g	(a)		St.	(%)	(Ra)	(g)	(Rs)	-	_	(EE)	-	
			-	Countries	Vafor	anu.	Quantuty	Value	, de	dana.	Value		Constitty	Value	Guantity	Palue	(Quantity	Value			
			1		- mborts	,	Ernonte	~	, 5	Image	_		Exports 4	ج ک	Imports St		Reports Can	~			
				`		Bengal		_	_		Madra		E .	, ,		Bombay	***	_			

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APPENDIX LXVI

A few representative instances showing the price spread of different types of raie tobacco (President).

	,	1 # # 6	1				_
	bacco	Prdoncer Delai Consumer Manufac, turer from Lahore		3.5 g (59.7)	, °S		0 1 0
	Hookah tobacco	Producer Muzaffar Pur Consumer Manufac turer from Cawnpore		13 3 0	0 13 0	0 6 0	0 2 0
		Producer Stra (Mysore) Consumer from Bangalore		6 13 3 (26 5)	0 7 6 (1 8)	0 6 0	
	Chewing tobacco	Producer Comba tore Consumer from Gudyat tam		0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 4 7	0 12 4	0 1 10
	Chev	Producer Muzaffar pur (Bihar) Consumer from Cawnpore	1	8 14 0 (67 2)	0 8 0	(8 7)	0 2 0
•(pune	9000	Producer Nyana Consumer Manufac turer from Calcutta	2	16 8 0 (75 9)	(10 5)	0 7 4	0 1 0
(Per standard maund).	Bids tobacco	Producer Charotar area Consumer Manufac turer from Jub bulpore	Rs A P		(10 4)	0 6 8 8 (4 2)	0 1 2 (0 7)
(Per	Cheroot tobacco	Producer Dubatta (Cooch Behar) Consumer Merchant from Bogra	Re A 7	(84 3)	0 14 0 (6 8)	(3.1)	0 1 6 (0 7)
	Cheroot	Producer Shwegyin Consumer Manufac turer from Rangoon	Rs A P	6 10 0 (85 0)	0 3 10 (3 1)	0 2 4	0 5 6 (4 4)
	tobaceo	Scraps and rejections Producer Guntur Consumer Manufac furer from Lahore	Rs A P	3 1 6 (38 8)	0 2 6 (1 9)	0 2 3	0 2 9
	Ogarette tobacco	Country (Vatu) Producer Guntur Consumer Manufac turer from Sukkur	Ra , P	14 15 7 (74 9)	0 6 0	0 4 0	0 13 0
				Amount realised by the grower	Marketing char ges	Packing and Package char ges	Transport up to railway station or port

Freight and handing charg cast Ity eta tions or ports	3 1 9 (15 5)	3 1 9 4 12 0 (15 5) (56 5)	(4.2)	0 8 6 (4 1)	(4 2) (4 1) (22 0)	(10 4)	0 14 6 (6 9)	(11.2)	(2 5)	$ \begin{pmatrix} 14 & 6 & 1 & 8 & 4 \\ (6 & 9) & (11 & 2) & (2 & 6) \\ \end{pmatrix} \begin{pmatrix} 16 & 9 \\ (61 & 9) \\ \end{pmatrix} \begin{pmatrix} (6 & 9) \\ (67) \\ \end{pmatrix} \begin{pmatrix} (20 & 0) \\ (20 & 0) \\ \end{pmatrix} $	(20 0)
	0 3 5						0 0 10 (0 4)			0 1 0 (0 4)	
Road transport from railway station r port to merchats	0 2 0 (0 6)	0 1 8	0 1 10 (1 5)	0 5 0 (1 0)	0 1 0	0 2 0 (0 0)	0 2 6 (1 2)	0 1 0 (0 4)		0 3 0	(2 2)
Terminal an l	0 2 3				0 5 0		0 0 3	(03)	(30 8)	0 0 5 10 4 0 0 0 9 (0 3) (30 8)	0 3 0
Wholesale mer chants mark a		_	-				(6 3)	0 14 1	2 6 6 (9 4)		
Rotailer s margin							(11.1)	(11 1) (4 3)	4 13 3 (18 8)		
Trer 8	20 0 0 (100 0)	Manufacturers 20 0 0 8 0 0 0 or consumets (100 0) (100 0) price	7 12 9 (100 0)	7 12 9 12 14 5 (100 0) (100 0)		20 0 0 (100 0)	(100 0)	13 13 7 (100 0)	25 11 9 (100 0)	(100 0) (100 0) (10 3 3 13 13 7 25 11 0 15 13 0 6 10 0 (100 0) (100 0) (100 0)	6 10 0 (100 0)
	_										

Norn -- Igures in brackets denote percentage of consumer's price

GLOSSARY OF VERNACULAR TERMS

Α

Adaiya Commission agent

Ak Milk weed—Calatropis

Anathalaya An orphanage

Angad Tobacco powder

Apla A tree the leaves of which are used as wrappers for

Arhativas Commission agents

Ath A unit of weight in the wholesale trade of tobacco
at Sangh and Jayasungpur equivalent to 224 lb

Bassar: A market charge in kind levied in Bengal

Bandhan A bundle
Baniya A village merchant who is generally the village

financier as well.

Bardana A deduction on account of weight of here or to

Bardana A deduction on account of weight of bags or tare
Baru Long

Ber A kind of plum

Bharam A unit of weight in the wholesale trade of tobacco in Madras varying from 500 to 520 lb

Bhots or Bhods Packages

Bhuko Coarsely crushed bids tobacco leaves
Bids An indigenous cigarette made by wrapping powdered

tobacco leaf of a tree (Diospurus) See page 328

Chetty A moneylender

Chhatank 1/16 of a seer

Chhoot An allowance in weight

Chiam A country clay pipe cup or bowl used for smoking raw or manufactured hookuh tobacco

Chintalu Weighing charge

Chungi Gratuity
Chura Powder
Chuttas A large sized bidi

Dalal Broker
Dalal Brokerage

Danedar Finely granulated chewing tobacco

Danedar An allowance for shrinkage in weight

Dhalia A lower class grower in Charotar area

Dharats A lower class grower in commission agent at a flat

Dharat A payment made to the commission agent at a flat

Dharat A payment made of the most of the m

Diarr One area to another
One area to another
A market charge on account of charity

Dharmadaya A market charge on account of charity
Dharmadaya A market charge on account of charity
Dharmao

Dharmau A market charge on account of charity

Dhas Tobacco powder or dust

Dinals A Hindu festival when illuminations take place on a large scale occurring in October November

Double Tobacco leaf flakes used for making bides

Dudhkhowa Present

Farmas | Toba co ear flakes used for making bidis
Fernaman | A charge for turning over tobaco bags in the store

Gan: A heap (It also means a market)

Ganth A heap (It Ganth Bundle

Ghatia Literally inferior—an inferior quality of hookah

tobacco

Goli A pill or tablet

Gords Bales

Goushala or Goashala An institution providing shelter for cows

H

Hat A weekly market

Hatpan B d: tobacco leaves spread and bundled
Hat tola An extra quantity of tobacco given to the buyer

before he takes delivery of the stock

Haryens Depressed classes
Hookah Smoking pipe—smoke being drawn through water in

vase to which a long flexible tube and a bowl are attached

Hujra Meeting place

Hundelars A forwarding and clearing agent

Jarda or Zarda Powdered chewing tobacco
Jowar A millet—Audropogan Sorghum

Judi or Julis Bundle

Kachcha Literally

K Literally raw and unfinished

a wide range of meanings, g, a kathola road is an unmetalled road, katholas as applied to work would imply shrahed or medicart, kathola arhetys is a trader of small means dealing in agricultural produce before it is bagged or made

The word has

ready for final sale

Ladb: Journ straw

Lada Black

Kalı Black
Kamblı A blanket

Karwa Literally of bitter taste—a strong and pungent quality of hookah tobacco

Katha 1/22 acre
Khabbars A rone of twisted tobacco plants.

Khabbars A rope of twisted tobacco plants, Khambira or Khamira A tobacco product,

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Khamır

Phena

Pinirapole

Ptli

Lst. fermented stuff A tobacco product

Kunbin Arccanut palm Kurchs Small L A market allowance Labh Red Lal Lora mitte Salty soil containing large quantity of saltpetre M onev lender or banker Maharan An important section of Harman community in the Mahars Boml av Presidency Mamod: or Mamul Laterally customary-a fixed charge Mangon A present 3 standard maunds make one Bombay Map MapForwarding agent s charges Marfat A forwarding agent Marfatia Medium Mattasam Mh.43 Improvised bags made of coarse woolen blankets Mistra A head coone Mitha Literally sweet-a mild quality of hookuh tobacco Literally period A deduction made by the arhativa Mu Mat to cover the loss of interest on money which he pays in advance to his seller client Munshy Clerk N \aman A market charge levied in the Charotar area P Literally a gift-a market charge levied in the Pagha la Charotar area Parkars Moulere Solidly built Literally-final real or mature Palka Bales Pallan A curing shed Pandul A b. tel leaf and betel nut seller Panwala An Afghan a sect of M hammedans Pathan Pathshale or Patshala A school Literally leaf-coarsely powdered chewing tobacco Patts A petty revenue official in the village Paticars Randles Pendis or Pindis Strong bamboo crates. Peturas

A hawker

An institution providing shelter for cattle

Yellow

A un t of weight in the wholesale trade of tobacco in Polhs Madras varying from 250 to 500 lb It also means a package

A unit of weight in the wholesale trade of tobacco in

Vizagapatam equivalent to 450 lb

Literally essence—chewing tobacco made in the form Quoam of a paste

R.

Tobacco leaf flakes smaller in size than those used for Rayad or trible making bidis

Alkaline earth

Roh Russa of Rassa Ropes

Putty

Russoom Contingent expenses

Sada Literally simple-an inferior quality of hookah tobacco

Sahukar A money lender

Shroff A village merchant who is generally the village financier as well

Sub dalal An agent of a broker Powdered chewing tobacco Surts

Talatı A petty revenue official in the village

Talug A sub division in a district

Tapedar A retty revenue official in the village Tare thare An allowance to kachcha arhativa

Thadronn A market charge on account of charity

Wholesale markets Thurnly Mandyes Thulam

A unit of weight in the wholesale trade of tobacco in

Periakulam (Madras) equ valent to 23} lb Trible See Payad

Votes Discount for making cash payment Viss (Burma) 3 6 lb make one Burma suss

7 iss (Madras) A unit of weight in the retail trade in Godavari and

Vizagapatam of Madras equivalent to 3 lb

Powdered shewing tobacoo

Zarda Jarda